GENERAL INFORMATION MODEL NOMENCLATURE SELECTION CURVES
SPECIFICATIONS PACKAGE SYSTEMS

0.2D 4XSC Explosion Proof

PUMP SERIES:

4XSCM (3 - 50HP, 1750RPM, 1150RPM)

4XSCD (3 - 100HP, 1750RPM, 1150RPM)

WARNING:
CANCER AND REPRODUCTIVE HARM -
WWW.P65WARNINGS.CA.GOV

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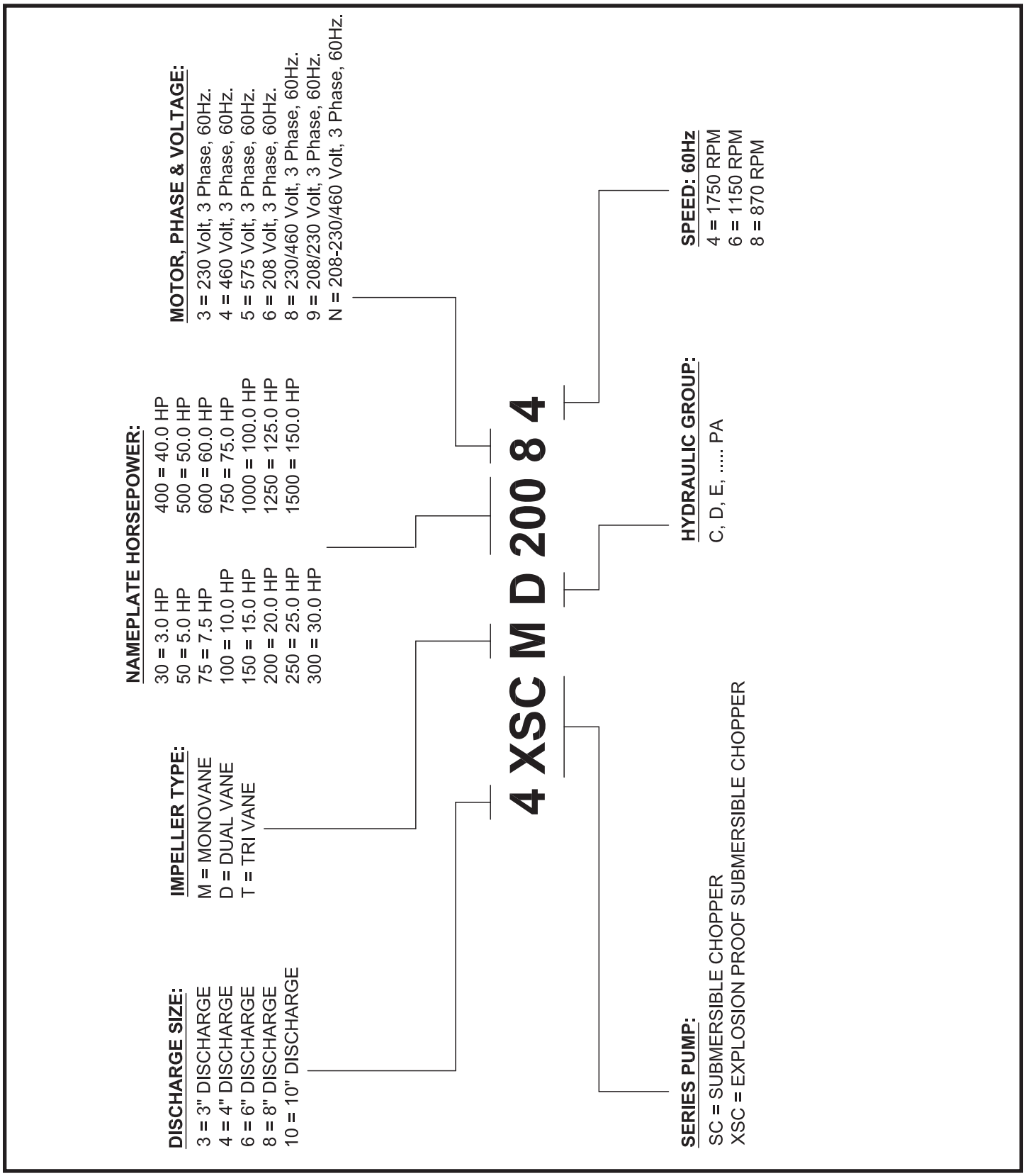
4 XSC M D 200 8 4
DISCHARGE SIZE:
3 = 3" DISCHARGE
4 = 4" DISCHARGE
6 = 6" DISCHARGE
8 = 8" DISCHARGE
10 = 10" DISCHARGE
IMPELLER TYPE:
M = MONOVANE
D = DUAL VANE
T = TRI VANE
NAMEPLATE HORSEPOWER:
30 = 3.0 HP
50 = 5.0 HP
75 = 7.5 HP
100 = 10.0 HP
150 = 15.0 HP
200 = 20.0 HP
250 = 25.0 HP
300 = 30.0 HP
400 = 40.0 HP
500 = 50.0 HP
600 = 60.0 HP
750 = 75.0 HP
1000 = 100.0 HP
1250 = 125.0 HP
1500 = 150.0 HP
MOTOR, PHASE & VOLTAGE:
3 = 230 Volt, 3 Phase, 60Hz.
4 = 460 Volt, 3 Phase, 60Hz.
5 = 575 Volt, 3 Phase, 60Hz.
6 = 208 Volt, 3 Phase, 60Hz.
8 = 230/460 Volt, 3 Phase, 60Hz.
9 = 208/230 Volt, 3 Phase, 60Hz.
N = 208-230/460 Volt, 3 Phase, 60Hz.
SPEED: 60Hz
4 = 1750 RPM
6 = 1150 RPM
8 = 870 RPM
HYDRAULIC GROUP:
C, D, E, ... PA
SERIES PUMP:
SC = SUBMERSIBLE CHOPPER
XSC = EXPLOSION PROOF SUBMERSIBLE CHOPPER

Selection Curves

RPM 1750 & 1150

BARNES®

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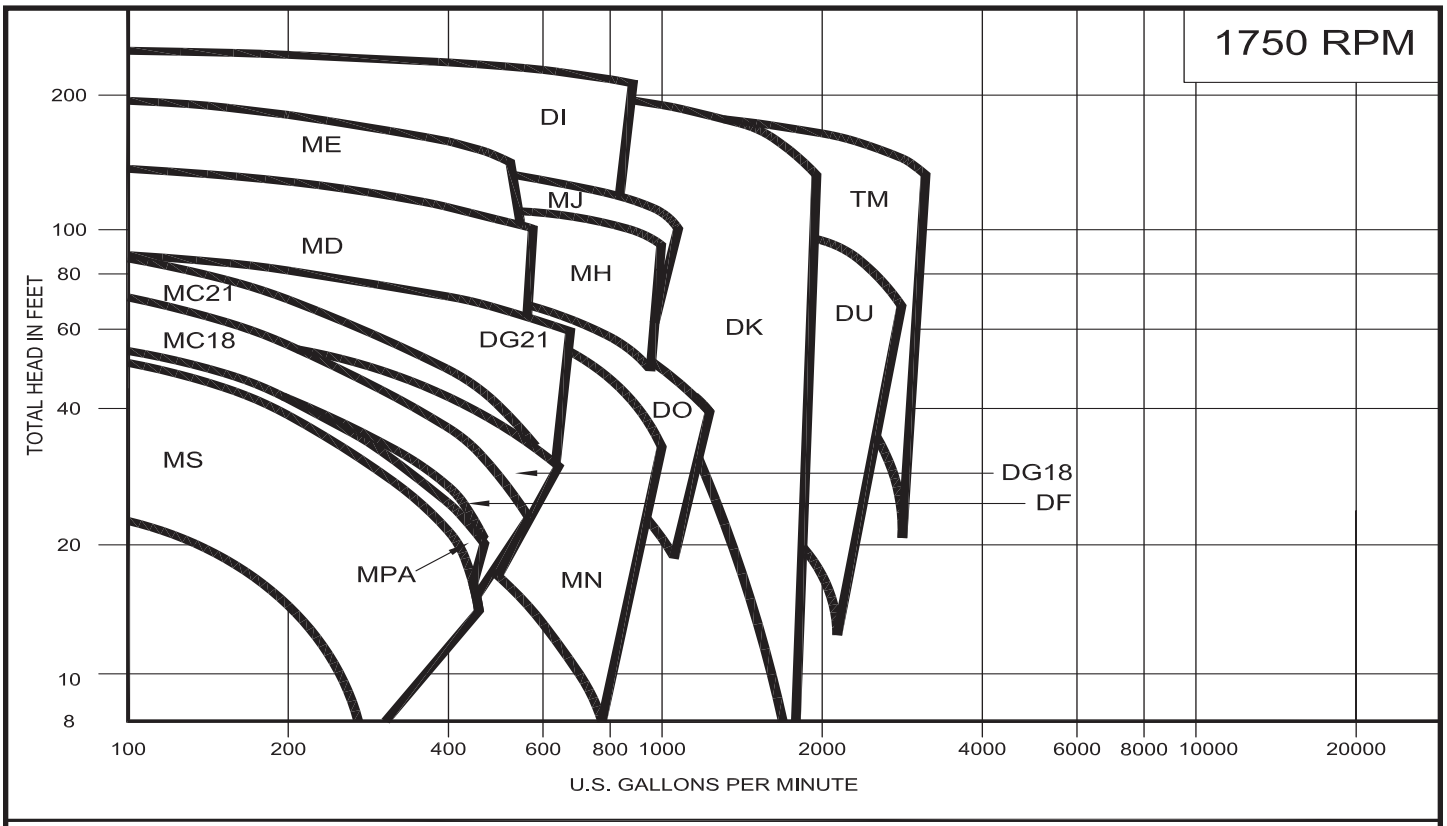
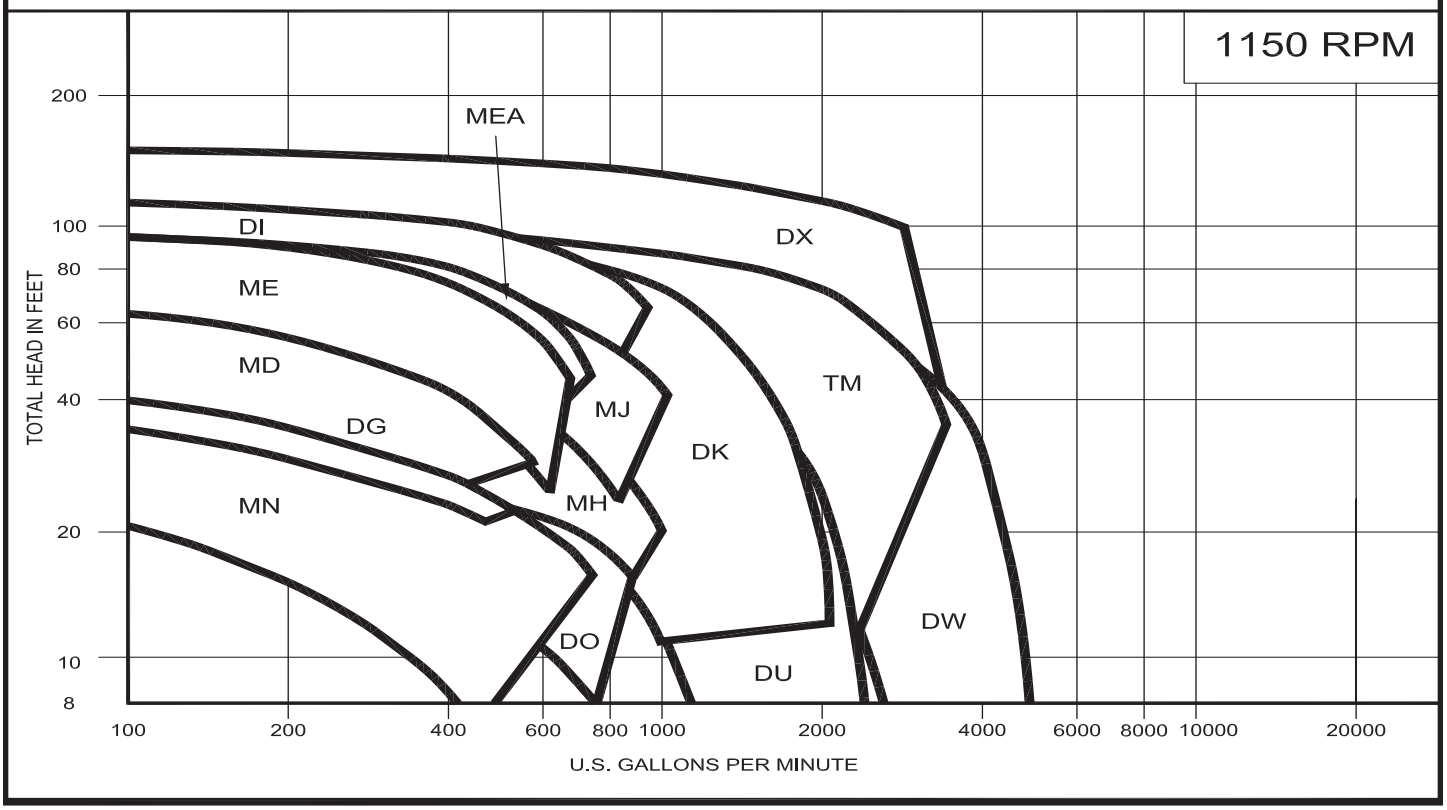
SITHE *X-Pruf® Submersible Chopper Pumps*





Typical Specifications

4XSCM Chopper Submersible Pumps

FILE: SPEC-4XSCM.doc

SITHE *X-Pruf® Submersible Chopper Pumps*

SCOPE: Furnish and install_____ submersible chopper pump(s). Each pump shall be capable of delivering the following performance points, _____ U.S. GPM at _____ TDH; _____ U.S. GPM at _____ TDH; and _____ U.S. GPM at _____TDH, with a shut off head of _____TDH (minimum) and _____% minimum efficiency at _____U.S.GPM at _____TDH (operating point). The pump motor shall be _____RPM, _____HP (maximum), _____Phase, 60 Hertz, _____Volts. The pump (s) shall be manufactured by a company regularly engaged in the manufacture and assembly of submersible units for a minimum of five (5) years. The pump (s) shall be SITHE by Barnes® Pumps model 4XSCM_____

PUMP DESIGN: Each pump shall be capable of handling raw, unscreened domestic sewage consisting of water, fibrous materials, and solids at heavy consistencies. The pump shall be able to chop/ macerate solids without clogging with chopped solid size not less than 1 inch, and the chopping mechanism shall be an integral part of the pump. The pump(s) shall be capable of handling liquids with temperatures to 104 degrees F continuous, 160 degrees F intermittent. Bearings shall be oil-lubricated and designed for 50,000 hours operating at minimum flow. Product shall be furnished with oil filled Inverter Duty Motors per NEMA MG-1, Part 31 with stator winding of the open type with Class H spike resistant magnet wire. The pump shall be CSA certified as Class I Div 1 Class C&D explosion proof with a T4 temperature rating.

PUMP CONSTRUCTION: The volute, seal plate, adapter, motor housing and motor housing cap shall be constructed of high quality, ASTM A-48 Class 30 cast iron. Impeller shall be furnished in ASTM A-536 ductile iron (ASTM A-532 class III Type A White Iron for abrasive applications) with a keyed, tapered shaft bore. Pump(s) shall be coated with two coats of Axalta™ amido amine modified polymer satin gloss epoxy with a total 10 mil minimum thickness in the manufacturer's standard color. All exposed hardware shall be 300 series stainless steel including the lifting bail. Discharge connection shall be a standard 125 pound 4" flange, slotted to accommodate 4" ANSI or 100mm ISO flanges. The suction side of the volute shall contain 16 points of attachment for accessories and additional configurations including attachment of a 4" ANSI or 100mm ISO flanges.

The pump shaft shall be 416 stainless steel with a tapered impeller fit to reduce rotor imbalance and minimize stress risers associated with stepped shafts. All gaskets shall be of the angular gland compression O-ring type eliminating critical slip fits and the possibility of damage during service associated with sliding O-ring sealing arrangements. The impeller shall be a mono vane design with pump out vanes.

The chopping mechanism shall consist of a bladed stationary plate and a rotating blade. Both blades shall only be constructed of high quality, ASTM A276 440C stainless steel, heat treated to 56-60 HRC. The rotating blade shall be press-fitted on to the impeller and secured to the impeller by four stainless steel pins. The bladed stationary plate shall be fixed to the volute in eight locations. The bladed stationary plate shall be adjustable to maintain a clearance of 0.001" to 0.008" between the stationary blade and rotating blade. The bladed impeller assembly shall be dynamically balanced to ISO G6.3 specifications. The bladed stationary plate shall be sealed internally against the volute with an O-ring. To upgrade from a submersible solids non clog pump into a chopper pump, the pump manufacturer shall be able to provide the bladed stationary plate, the rotating blade and all other necessary components.

The chopping mechanism shall consist of dual wear ring system. The rotating blade shall operate as a wear ring for the impeller along the outer diameter of the impeller assembly. The matching volute shall be provided with an external replaceable bronze wear ring at the inlet.

The tandem mechanical shaft seals shall be of the single spring design operating in an intermediate oil-filled seal cavity. Pump-out vanes on back side of the impeller shroud shall be large enough to efficiently expel solids away from the seal area. The materials of construction shall be silicon carbide vs. silicon carbide for the pump-end seal and carbon vs. ceramic for the motor-end seal, lapped and polished to a tolerance of one light band, 300 series stainless steel hardware, and Buna-N elastomeric parts. The pump-end seal shall be pinned in place to prevent rotation of the stationary seat and shall seal to the pump housing via an O-ring to maximize heat transfer. Cup mounted seats shall not be considered equal. The seal shall be commercially available and not a pump manufacturer's proprietary design. A moisture sensor detection system consisting of two probes shall be integrated within the oil-filled seal chamber which is isolated from the motor chamber. Units sensing moisture within the motor chamber are not acceptable. Moisture sensing devices utilizing one probe and grounding through the pump case or utilizing a float device are not acceptable.

The leads for the moisture detector and temperature sensors shall be contained within the power cable, except that for 1/0 cables, the sensor leads will be in a separate cable.

The pump motor shall be sized to be non-overloading throughout the entire system operating range. The rotor and stator assembly shall be of the standard frame design and the stator pressed into the motor housing for mechanical stability. The motor shall be constructed with the windings operating in a sealed environment containing clean dielectric oil. Manufacturer to supply submergence requirements for continuous operation.

Motors shall be dielectric oil filled for optimal thermal management and maximum bearing life. Air-filled motors with grease-filled bearings shall not be acceptable. The motor windings shall be of Class H, spike-resistant insulation. The motor shall meet the NEMA Design B standard and be Inverter Duty Rated per NEMA MG1, part 31.

The pump shaft shall be of 416 stainless steel, keyed and tapered for the matching impeller. The lower bearing shall be of the double row ball type, locked in position to accept radial and axial thrust loads, and the upper bearing of the single ball type for radial loads. Bearings shall operate in an oil bath environment for superior lubrication, cooling and life.

THREE PHASE: Three thermal sensors (one per phase) shall be embedded in the end coil of the stator windings, wired in series and used to monitor stator temperatures. This shall be used in conjunction with an external motor overload protection device and wired to the control panel through the single power cable.

The pump shall be equipped with (30/50/75/100) ft. of a CSA-qualified submersible quick connect power cable constructed in accordance with type W guidelines and shall include the moisture and temperature sensor leads. The pump shall have dual or tri voltage motors, that will provide the ability to change voltage by just changing the power cable. For 18 and 21 Frame pumps, the cable entry system shall consist of a voltage-selectable expanding elastomeric plug held in place by a cast stainless steel plate indicating voltage and max amps. For 28 Frame pumps, cord connection shall be a pump mounted plug and a rigid cord socket contained by a cast iron housing bolted to the motor with epoxy-potted cable connections and sealed by compressed O-rings.

PUMP TEST: The pump manufacturer shall perform a standard three point performance test at the minimum. If certified testing is required, the manufacturer shall offer to perform tests in accordance with Grades B, E and U of Hydraulic Institute standards. Additionally,

1. A check of the motor voltage and frequency shall be made as shown on the name plate.
2. A motor and cable insulation test for moisture content or insulation defects shall be made per CSA criteria.
3. A performance curve from the production line test showing head versus flow shall be included in the Installation and Operation Manual shipped with each pump.
4. A written report shall be available showing the aforementioned tests have been performed in accordance with the specifications.

START-UP: The pump(s) shall be tested at start-up by a qualified representative of the manufacturer. A start-up report as provided by the manufacturer shall be completed before final acceptance of the pump(s).

DOCUMENTATION: The manufacturer, if requested, will supply a minimum of _____ sets of standard submittal data; Standard submittal data consist of:

1. Pump catalog data;
2. Pump performance curve;
3. Break Away Fitting (BAF) data;
4. Access cover data;
5. Typical installation drawing;
6. Control panel data
7. Panel wiring schematic;
8. Accessory data;
9. Installation & Operation Manuals with Parts List.

Typical Specifications

4XSCD Chopper Submersible Pumps

BARNES®

www.cranepumps.com

SITHE *X-Pruf® Submersible Chopper Pumps*

FILE: SPEC-4XSCD.doc

SCOPE: Furnish and install_____ submersible chopper pump(s). Each pump shall be capable of delivering the following performance points, _____ U.S. GPM at _____ TDH; _____ U.S. GPM at _____ TDH; and _____ U.S. GPM at _____TDH, with a shut off head of _____TDH (minimum) and _____% minimum efficiency at _____U.S.GPM at _____TDH (operating point). The pump motor shall be _____RPM, _____HP (maximum), _____Phase, 60 Hertz, _____Volts. The pump (s) shall be manufactured by a company regularly engaged in the manufacture and assembly of submersible units for a minimum of five (5) years. The pump (s) shall be SITHE by Barnes® Pumps model 4XSCD_____

PUMP DESIGN: Each pump shall be capable of handling raw, unscreened domestic sewage consisting of water, fibrous materials, and solids at heavy consistencies. The pump shall be able to chop/ macerate solids without clogging with chopped solid size not less than 1 inch, and the chopping mechanism shall be an integral part of the pump. The pump(s) shall be capable of handling liquids with temperatures to 104 degrees F continuous, 160 degrees F intermittent. Bearings shall be oil-lubricated and designed for 50,000 hours operating at minimum flow. Product shall be furnished with oil filled Inverter Duty Motors per NEMA MG-1, Part 31 with stator winding of the open type with Class H spike resistant magnet wire. The pump shall be CSA certified as Class I Div 1 Class C&D explosion proof with a T4 temperature rating.

PUMP CONSTRUCTION: The volute, seal plate, adapter, motor housing and motor housing cap shall be constructed of high quality, ASTM A-48 Class 30 cast iron. Impeller shall be furnished in ASTM A-536 ductile iron (ASTM A-532 class III Type A White Iron for abrasive applications) with a keyed, tapered shaft bore. Pump(s) shall be coated with two coats of Axalta™ amido amine modified polymer satin gloss epoxy with a total 10 mil minimum thickness in the manufacturer's standard color. All exposed hardware shall be 300 series stainless steel including the lifting bail. Discharge connection shall be a standard 125 pound 4" flange, slotted to accommodate 4" ANSI or 100mm ISO flanges. The suction side of the volute shall contain 16 points of attachment for accessories and additional configurations including attachment of a 4" ANSI (100mm ISO) flanges or a 6" ANSI (150mm ISO) flanges.

The pump shaft shall be 416 stainless steel with a tapered impeller fit to reduce rotor imbalance and minimize stress risers associated with stepped shafts. All gaskets shall be of the angular gland compression O-ring type eliminating critical slip fits and the possibility of damage during service associated with sliding O-ring sealing arrangements. The impeller shall be a dual vane design with pump out vanes on back side.

The chopping mechanism shall consist of a bladed stationary plate and a rotating blade. Both blades shall only be constructed of high quality, ASTM A276 440C stainless steel, heat treated to 56-60 HRC. The rotating blade shall be press-fitted on to the impeller and secured to the impeller by four stainless steel pins. The bladed stationary plate shall be fixed to the volute in eight locations. The bladed stationary plate shall be adjustable to maintain a clearance of 0.001" to 0.008" between the stationary blade and rotating blade. The bladed impeller assembly shall be dynamically balanced to ISO G6.3 specifications. The bladed stationary plate shall be sealed internally against the volute with an O-ring. To upgrade from a submersible solids non clog pump into a chopper pump, the pump manufacturer shall be able to provide the bladed stationary plate, the rotating blade and all other necessary components.

The chopping mechanism shall consist of dual wear ring system. The rotating blade shall operate as a wear ring for the impeller along the outer diameter of the impeller assembly. The matching volute shall be provided with an external replaceable bronze wear ring at the inlet.

The tandem mechanical shaft seals shall be of the single spring design operating in an intermediate oil-filled seal cavity. Pump-out vanes on back side of the impeller shroud shall be large enough to efficiently expel solids away from the seal area. The materials of construction shall be silicon carbide vs. silicon carbide for the pump-end seal and carbon vs. ceramic for the motor-end seal, lapped and polished to a tolerance of one light band, 300 series stainless steel hardware, and Buna-N elastomeric parts. The pump-end seal shall be pinned in place to prevent rotation of the stationary seat and shall seal to the pump housing via an O-ring to maximize heat transfer. Cup mounted seats shall not be considered equal. The seal shall be commercially available and not a pump manufacturer's proprietary design. A moisture sensor detection system consisting of two probes shall be integrated within the oil-filled seal chamber which is isolated from the motor chamber. Units sensing moisture within the motor chamber are not acceptable. Moisture sensing devices utilizing one probe and grounding through the pump case or utilizing a float device are not acceptable.

The leads for the moisture detector and temperature sensors shall be contained within the power cable, except that for 1/0 cables, the sensor leads will be in a separate cable.

The pump motor shall be sized to be non-overloading throughout the entire system operating range. The rotor and stator assembly shall be of the standard frame design and the stator pressed into the motor housing for mechanical stability. The motor shall be constructed with the windings operating in a sealed environment containing clean dielectric oil. Manufacturer to supply submergence requirements for continuous operation.

Motors shall be dielectric oil filled for optimal thermal management and maximum bearing life. Air-filled motors with grease-filled bearings shall not be acceptable. The motor windings shall be of Class H, spike-resistant insulation. The motor shall meet the NEMA Design B standard and be Inverter Duty Rated per NEMA MG1, part 31.

The pump shaft shall be of 416 stainless steel, keyed and tapered for the matching impeller. The lower bearing shall be of the double row ball type, locked in position to accept radial and axial thrust loads, and the upper bearing of the single ball type for radial loads. Bearings shall operate in an oil bath environment for superior lubrication, cooling and life.

THREE PHASE: Three thermal sensors (one per phase) shall be embedded in the end coil of the stator windings, wired in series and used to monitor stator temperatures. This shall be used in conjunction with an external motor overload protection device and wired to the control panel through the single power cable.

The pump shall be equipped with (30/50/75/100) ft. of a CSA-qualified submersible quick connect power cable constructed in accordance with type W guidelines and shall include the moisture and temperature sensor leads. The pump shall have dual or tri voltage motors, that will provide the ability to change voltage by just changing the power cable. For 18 and 21 Frame pumps, the cable entry system shall consist of a voltage-selectable expanding elastomeric plug held in place by a cast stainless steel plate indicating voltage and max amps. For 28 and 32 Frame pumps, cord connection shall be a pump mounted plug and a rigid cord socket contained by a cast iron housing bolted to the motor with epoxy-potted cable connections and sealed by compressed O-rings.

PUMP TEST: The pump manufacturer shall perform a standard three point performance test at the minimum. If certified testing is required, the manufacturer shall offer to perform tests in accordance with Grades B, E and U of Hydraulic Institute standards. Additionally,

1. A check of the motor voltage and frequency shall be made as shown on the name plate.
2. A motor and cable insulation test for moisture content or insulation defects shall be made per CSA criteria.
3. A performance curve from the production line test showing head versus flow shall be included in the Installation and Operation Manual shipped with each pump.
4. A written report shall be available showing the aforementioned tests have been performed in accordance with the specifications.

START-UP: The pump(s) shall be tested at start-up by a qualified representative of the manufacturer. A start-up report as provided by the manufacturer shall be completed before final acceptance of the pump(s).

DOCUMENTATION: The manufacturer, if requested, will supply a minimum of _____ sets of standard submittal data; Standard submittal data consist of:

1. Pump catalog data;
2. Pump performance curve;
3. Break Away Fitting (BAF) data;
4. Access cover data;
5. Typical installation drawing;
6. Control panel data
7. Panel wiring schematic;
8. Accessory data;
9. Installation & Operation Manuals with Parts List.

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A Crane Co. Company

PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

SITHE *X-Pruf® Submersible Chopper Pumps*

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Monovane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX)	288 lbs (130.5 Kg)
NOISE EMISSION MAX	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

LR16567

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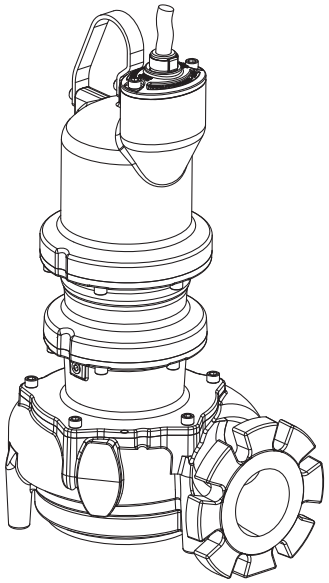

SITHE

Series: 4XSCM
3 - 10HP, 1750RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2D Page E.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Series 4XSCM
21 Frame Driver

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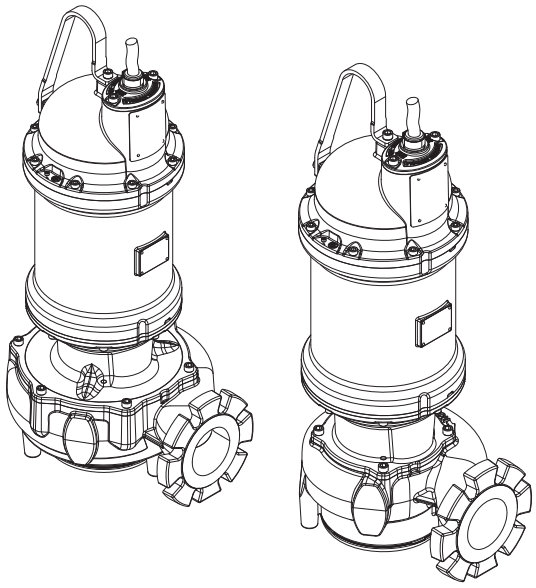
SITHE X-Pruf® Submersible Chopper Pumps



SITHE
Series: 4XSCM
15 - 30HP, 1750RPM, 60Hz
7.5 - 20HP, 1150RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2D Page E.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Monovane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX)	500 lbs (227 Kg)
NOISE EMISSION MAX	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

C SP US
LR16567

SWPA MEMBER

HYDRAULIC INSTITUTE PROUD MEMBER

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PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

SITHE *X-Pruf® Submersible Chopper Pumps*

Specifications:

DISCHARGE		4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE		104°F (40°C) Continuous
VOLUTE		Cast Iron ASTM A-48, Class 30
STRIKER PLATE		440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 4" 125 # Flange
WEAR RING		C954 Lead-Free Bronze
MOTOR HOUSING		Cast Iron ASTM A-48, Class 30
SEAL PLATE		Ductile Iron ASTM A-536, 65-45-12
IMPELLER:		
	Design	Enclosed Monovane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
	Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE		440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT		416 Stainless Steel
"O" RINGS		Buna-N
HARDWARE		300 Series Stainless Steel
LIFTING BAIL		300 Series Stainless Steel
PAINT		Axalta™ Corlar® Epoxy, Two Coats
SEAL:	*Design*	Tandem Mechanical, Oil Filled Reservoir.
	Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
	Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY		Rigid quick change epoxy-potted Jhousing
POWER CORD		CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED		1750 or 1150 RPM
UPPER BEARING:		
	Design	Single Row, Ball, Oil Lubricated
	Load	Radial
LOWER BEARING:		
	Design	Double Row, Ball, Oil Lubricated
	Load	Radial & Thrust
MOTOR: *Design*		NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
	Insulation	Class H Varnish & Magnet Wire
THREE PHASE		Requires overload protection to be included in control panel.
MOISTURE SENSOR		Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR		Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT		White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS		CSA
WEIGHT (MAX)		881 lbs (400 Kg)
SUBMERGENCE		Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

C SP US
LR16567

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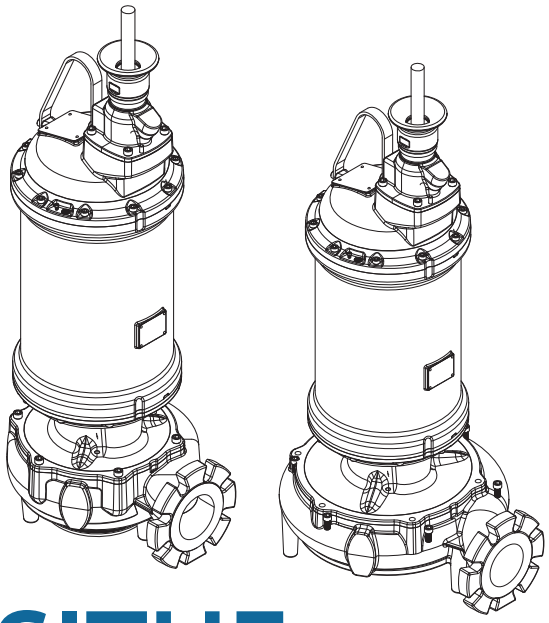


SITHE

Series: 4XSCM
20 - 50HP, 1750RPM, 60Hz
20 - 25HP, 1150RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2D Page E.

This product may be covered by one or more of the following patents and other patent(s) pending: NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

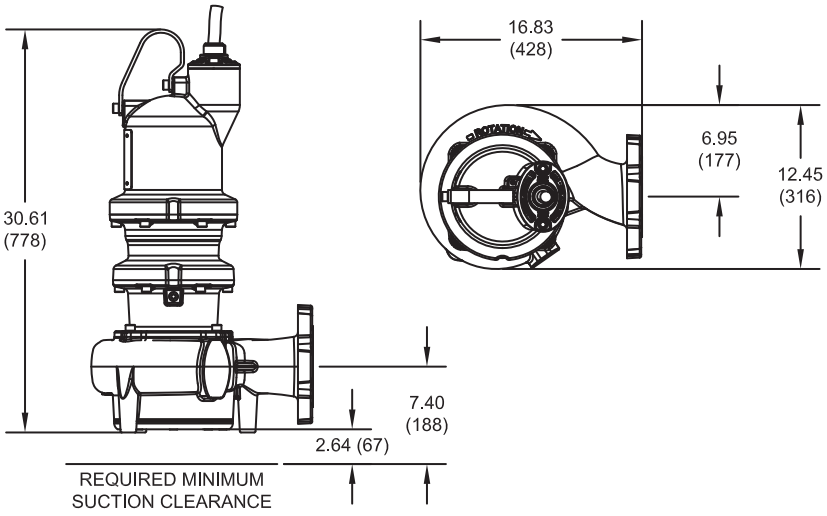
SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

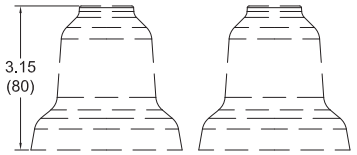
SITHE *X-Pruf® Submersible Chopper Pumps*

18 Frame Driver

inches (mm)



Optional Leg Kit - p/n 125506



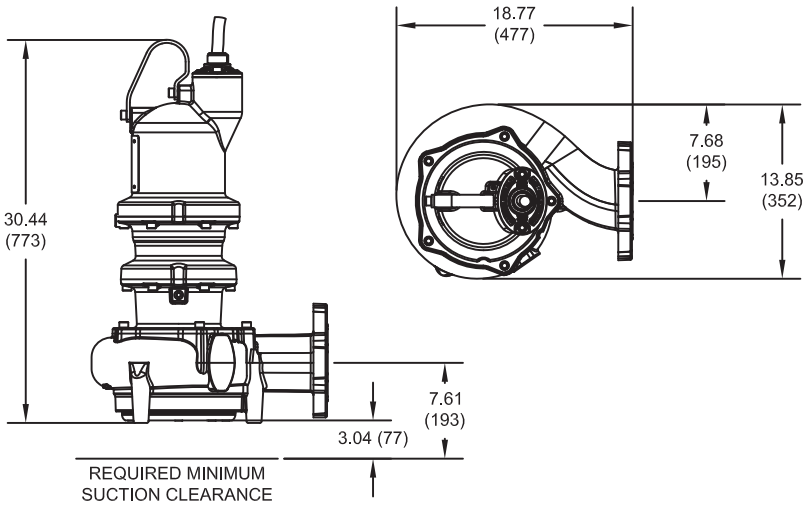
IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

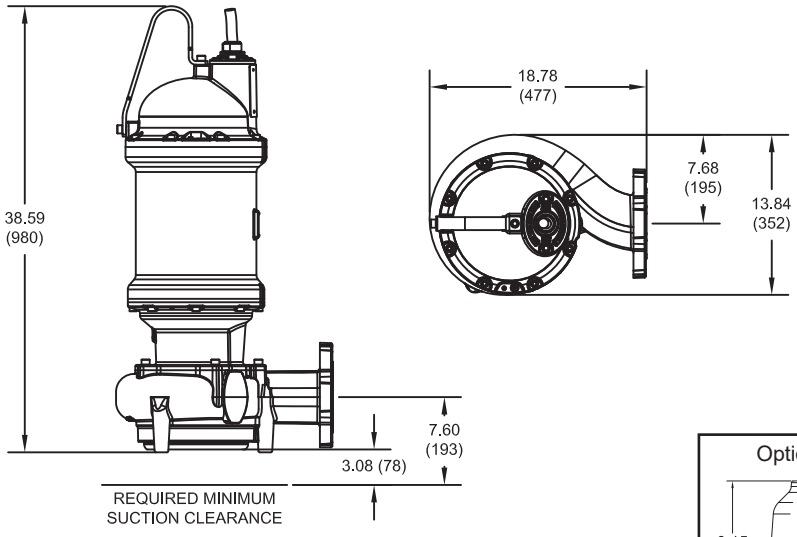
SITHE *X-Pruf® Submersible Chopper Pumps*

18 Frame Driver

inches (mm)



21 Frame Driver



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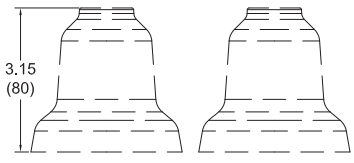

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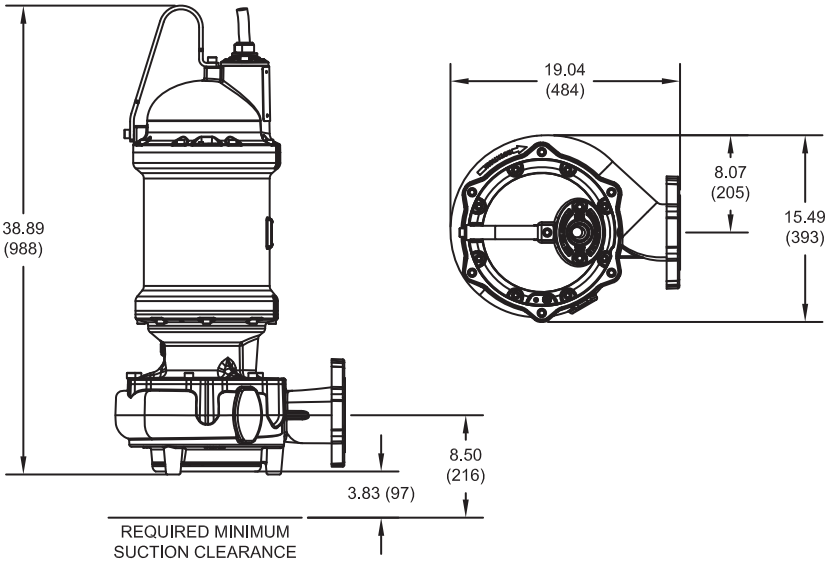
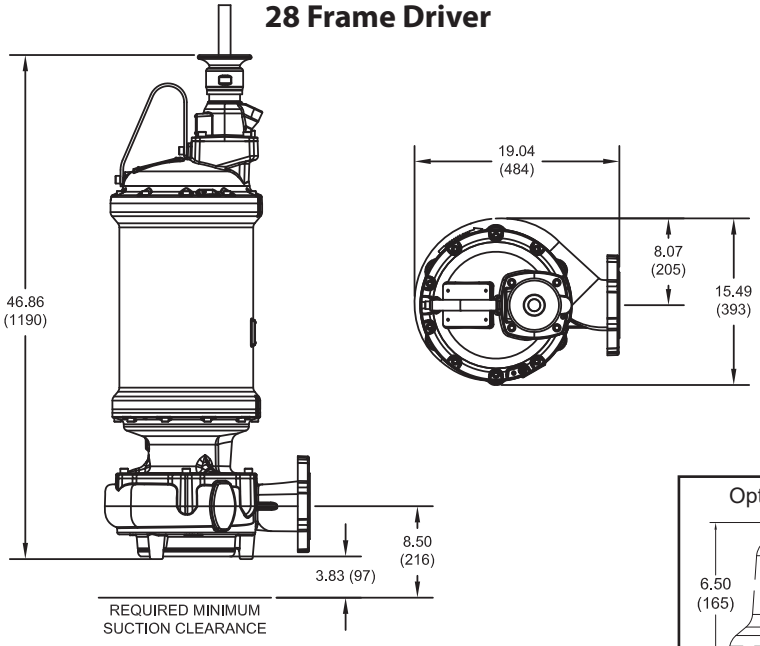
SITHE X-Pruf® Submersible Chopper Pumps

21 Frame Driver

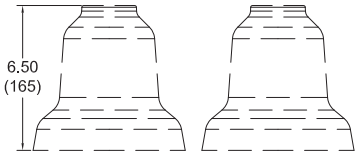
inches (mm)



28 Frame Driver



Optional Leg Kit - p/n 125506B



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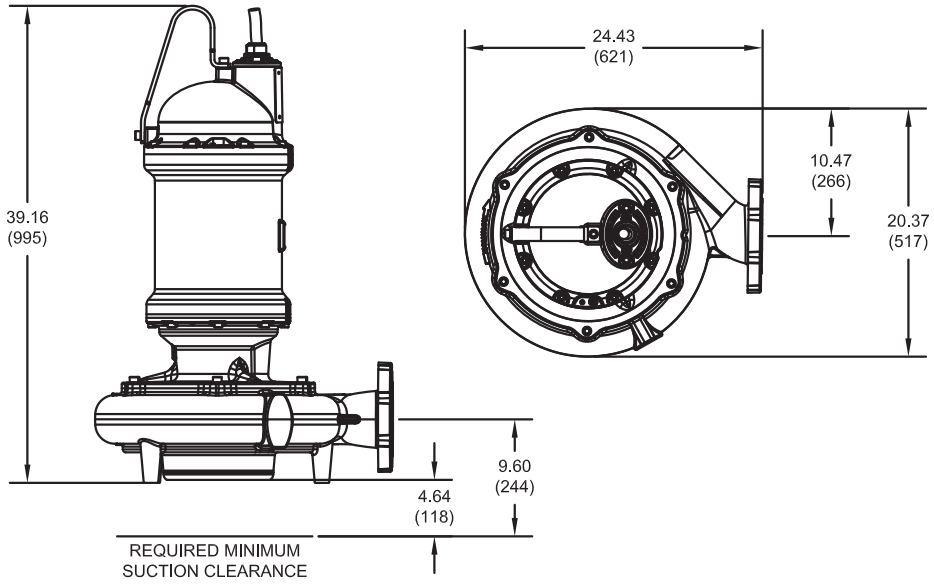
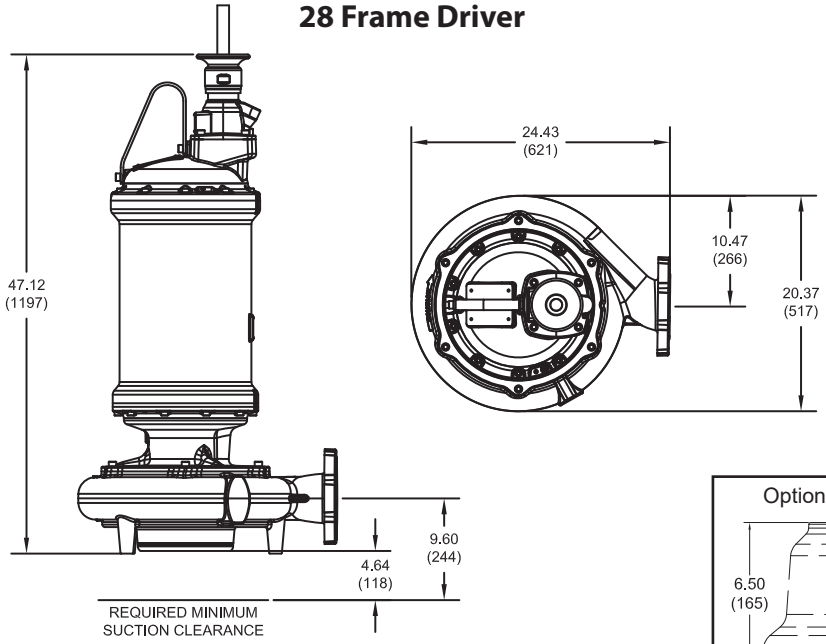
SITHE *X-Pruf® Submersible Chopper Pumps*

21 Frame Driver

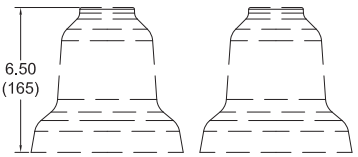
inches (mm)



28 Frame Driver



Optional Leg Kit - p/n 125506B



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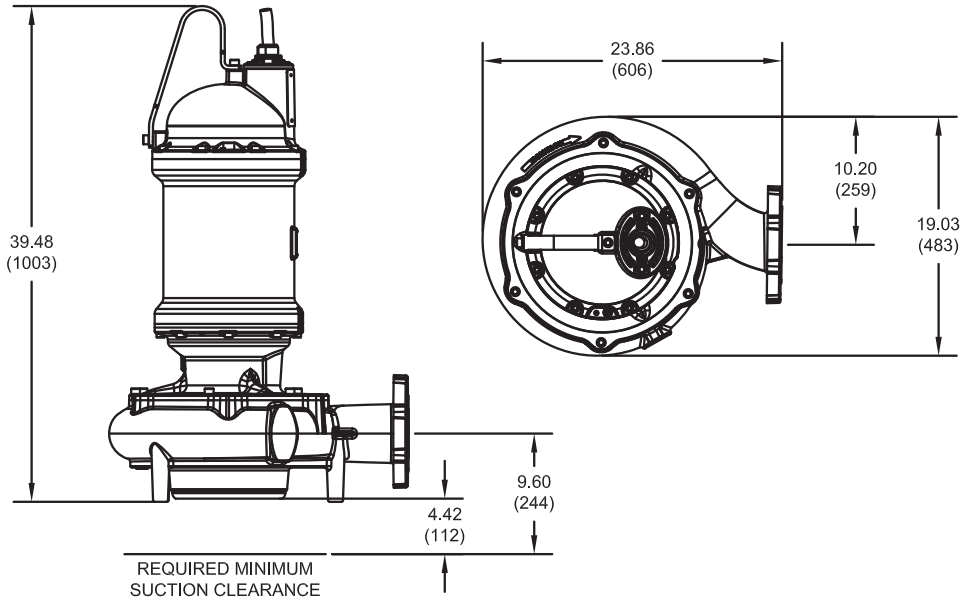
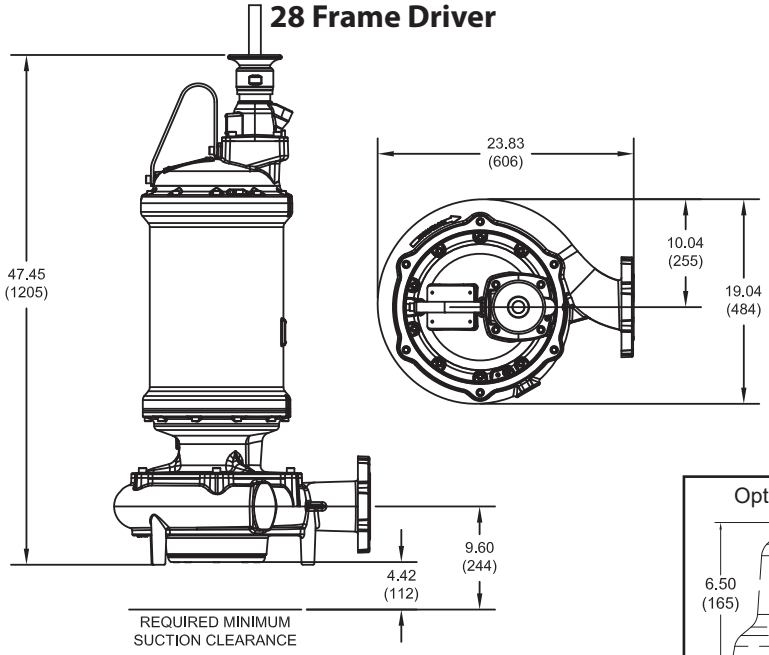
SITHE X-Pruf® Submersible Chopper Pumps

21 Frame Driver

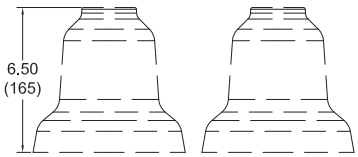
inches (mm)



28 Frame Driver



Optional Leg Kit - p/n 125506B



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	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
SITHE XSCMS Pump	4XSCMS30N4	3.0	208	3	60	1750	K	9.7	1.2	11.4	58.2 / 65.8	18	125496	12/4 - 18/4
			230					9.2	1.2	10.6			125496	12/4 - 18/4
			460					4.6	1.2	5.3	32.9		125497	12/4 - 18/4
	4XSCMS3054	3.0	575	3	60	1750	N	4.5	1.2	4.9	37	18	125497	12/4 - 18/4
	4XSCMS50N4	5.0	208	3	60	1750	J	15.8	1.2	18.7	82.4 / 92.4	18	125496	12/4 - 18/4
			230					15	1.2	17.2			125496	12/4 - 18/4
			460					7.5	1.2	8.6	46.2		125497	12/4 - 18/4
	4XSCMS5054	5.0	575	3	60	1750	J	6	1.2	6.9	37	18	125497	12/4 - 18/4
	4XSCMS75N4	7.5	208	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6	18	125496	12/4 - 18/4
			230					23.7	1.2	27.2			125496	12/4 - 18/4
			460					11.9	1.2	13.6	61.8		125497	12/4 - 18/4
	4XSCMS7554	7.5	575	3	60	1750	H	9.5	1.2	10.9	49.4	18	125497	12/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.

SITHE X-Pruf® Submersible Chopper Pumps

SITHE xSCMC Pump

MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4XSCMC50N4	5.0	208	3	60	1750	J	15.8	1.2	18.7	82.4/92.4	18	125496	12/4 - 18/4
		230					15	1.2	17.2			125496	12/4 - 18/4
		460					7.5	1.2	8.6	46.2		125497	12/4 - 18/4
4XSCMC5054	5.0	575	3	60	1750	J	6	1.2	6.9	37	18	125497	12/4 - 18/4
4XSCMC75N4	7.5	208	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6	18	125496	12/4 - 18/4
		230					23.7	1.2	27.2			125496	12/4 - 18/4
		460					11.9	1.2	13.6	61.8		125497	12/4 - 18/4
4XSCMC7554	7.5	575	3	60	1750	H	9.5	1.2	10.9	49.4	18	125497	12/4 - 18/4
4XSCMC100N4	10.0	208	3	60	1750	E	32.2	1.2	41.4	105.9 / 123.6	18	125498	8/4 - 18/4
		230					29.8	1.2	35.6			125498	8/4 - 18/4
		460					14.9	1.2	17.8	61.8		125497	12/4 - 18/4
4XSCMC10054	10.0	575	3	60	1750	E	11.9	1.2	14.2	49.4	18	125497	12/4 - 18/4
4XSCMC150N4	15.0	208	3	60	1750	E	51.8	1.2	59.0	206.6	21	125498	8/4 - 18/4
		230					46.9	1.2	54.3			125498	8/4 - 18/4
		460					23.4	1.2	27.2	103.3		125497	12/4 - 18/4
4XSCMC15054	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	125497	12/4 - 18/4

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SITHE *X-Pruf® Submersible Chopper Pumps*

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
SITHE XSCMD Pump	4XSCMD150N4	15.0	208	3	60	1750	E	51.8	1.2	59.0	206.6	21	125498	8/4 - 18/4
			230					46.9	1.2	54.3			125498	8/4 - 18/4
			460					23.4	1.2	27.2	103.3		125497	12/4 - 18/4
	4XSCMD15054	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	125497	12/4 - 18/4
	4XSCMD20064	20.0	208	3	60	1750	G	63.0	1.2	74.6	323.0	28	138318	6/4 - 18/4
	4XSCMD20084	20.0	230	3	60	1750	J	53.7	1.2	59.0	383.9	21	125498	8/4 - 18/4
			460					26.9	1.2	29.9			125497	12/4 - 18/4
	4XSCMD20054	20.0	575	3	60	1750	J	21.5	1.2	23.9	153.5	21	125497	12/4 - 18/4
	4XSCMD25094	25.0	208	3	60	1750	G	77.8	1.2	93.4	359.0	28	138319	2/4 - 18/4
			230					71.4	1.2	82.3				
	4XSCMD25044	25.0	460	3	60	1750	G	33.2	1.2	38.9	191.9	21	125499	8/4 - 18/4
	4XSCMD25054	25.0	575	3	60	1750	G	26.6	1.2	31.1	153.5	21	125497	12/4 - 18/4
	4XSCMD30094	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319	2/4 - 18/4
			230					82.3	1.2	98.7				
	4XSCMD30044	30.0	460	3	60	1750	F	38.9	1.2	45.9	191.9	21	125499	8/4 - 18/4
	4XSCMD30054	30.0	575	3	60	1750	F	31.1	1.2	36.7	153.5	21	125499	8/4 - 18/4
	4XSCMD40034	40.0	230	3	60	1750	E	106.0	1.2	126.4	486.0	28	138319	2/4 - 18/4
	4XSCMD40044	40.0	460	3	60	1750	E	53.0	1.2	63.2	243.0	28	138318	6/4 - 18/4
	4XSCMD40054	40.0	575	3	60	1750	E	42.4	1.2	50.6	194.4	28	138317	8/4 - 18/4
	4XSCMD75N6	7.5	208	3	60	1150	J	24.9	1.2	29.6	137.6	21	125496	12/4 - 18/4
			230					24.0	1.2	27.6				
			460					12.0	1.2	13.8	68.8		125497	
	4XSCMD7556	7.5	575	3	60	1150	J	9.6	1.2	11.0	55.0	21	125497	12/4 - 18/4
	4XSCMD100N6	10.0	208	3	60	1150	F	32.9	1.2	41.0	137.6	21	125498	8/4 - 18/4
			230					30.2	1.2	35.8				
			460					15.1	1.2	17.9	68.8		125497	12/4 - 18/4
	4XSCMD10056	10.0	575	3	60	1150	F	12.1	1.2	14.3	55.0	21	125497	12/4 - 18/4
	4XSCMD150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	248.6	21	125498	8/4 - 18/4
			230					44.1	1.2	51.4				
			460					22.0	1.2	25.7	124.3		125497	12/4 - 18/4
	4XSCMD15056	15.0	575	3	60	1150	H	17.6	1.2	20.6	99.4	21	125497	12/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.

SITHE X-Pruf® Submersible Chopper Pumps

SITHE XSCME Pump	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
	4XSCME30094	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319	2/4 - 18/4
			230					82.3		98.7				
	4XSCME30044	30.0	460	3	60	1750	F	38.9	1.2	45.9	191.9	21	125499	8/4 - 18/4
	4XSCME30054	30.0	575	3	60	1750	F	31.1	1.2	36.7	153.5	21	125499	8/4 - 18/4
	4XSCME40034	40.0	230	3	60	1750	E	106.0	1.2	126.4	486.0	28	138319	2/4 - 18/4
	4XSCME40044	40.0	460	3	60	1750	E	53.0	1.2	63.2	243.0	28	138318	6/4 - 18/4
	4XSCME40054	40.0	575	3	60	1750	E	42.4	1.2	50.6	194.4	28	138317	8/4 - 18/4
	4XSCME50044	50.0	460	3	60	1750	F	67.1	1.2	79.0	339.0	28	138318	6/4 - 18/4
	4XSCME50054	50.0	575	3	60	1750	F	53.7	1.2	63.2	271.2	28	138318	6/4 - 18/4
	4XSCME150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	248.6	21	125498	8/4 - 18/4
			230					44.1	1.2	51.4	124.3		125497	12/4 - 18/4
			460					22.0	1.2	25.7				
	4XSCME15056	15.0	575	3	60	1150	H	17.6	1.2	20.6	99.4	21	125497	12/4 - 18/4
	4XSCME20096	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	28	138318	6/4 - 18/4
			230					57.2	1.2	69.8				
	4XSCME20046	20.0	460	3	60	1150	E	28.6	1.2	34.9	124.3	21	125499	8/4 - 18/4
	4XSCME20056	20.0	575	3	60	1150	E	22.9	1.2	27.9	99.4	21	125497	12/4 - 18/4

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▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.

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SITHE XSCMEA Pump	4XSCMEA100N6	10.0	208	3	60	1150	F	32.9	1.2	41.0	137.6	21	125498	8/4 - 18/4
			230					30.2		35.8				
			460					15.1		17.9	68.8		125497	12/4 - 18/4
	4XSCMEA10056	10.0	575	3	60	1150	F	12.1	1.2	14.3	55.0	21	125497	12/4 - 18/4
	4XSCMEA150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	248.6	21	125498	8/4 - 18/4
			230					44.1	1.2	51.4			125497	12/4 - 18/4
			460					22.0	1.2	25.7	124.3			
	4XSCMEA15056	15.0	575	3	60	1150	H	17.6	1.2	20.6	99.4	21	125497	12/4 - 18/4
	4XSCMEA20096	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	28	138318	6/4 - 18/4
			230					57.2	1.2	69.8				
	4XSCMEA20046	20.0	460	3	60	1150	E	28.6	1.2	34.9	124.3	21	125499	8/4 - 18/4
	4XSCMEA20056	20.0	575	3	60	1150	E	22.9	1.2	27.9	99.4	21	125497	12/4 - 18/4
	4XSCMEA25096	25.0	208	3	60	1150	G	75.2	1.2	90.8	354.0	28	138319	2/4 - 18/4
			230					70.8	1.2	82.6				
	4XSCMEA25046	25.0	460	3	60	1150	G	35.4	1.2	41.3	177.0	28	138317	8/4 - 18/4
	4XSCMEA25056	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	28	138317	8/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.
* Select impeller diameter when ordering.

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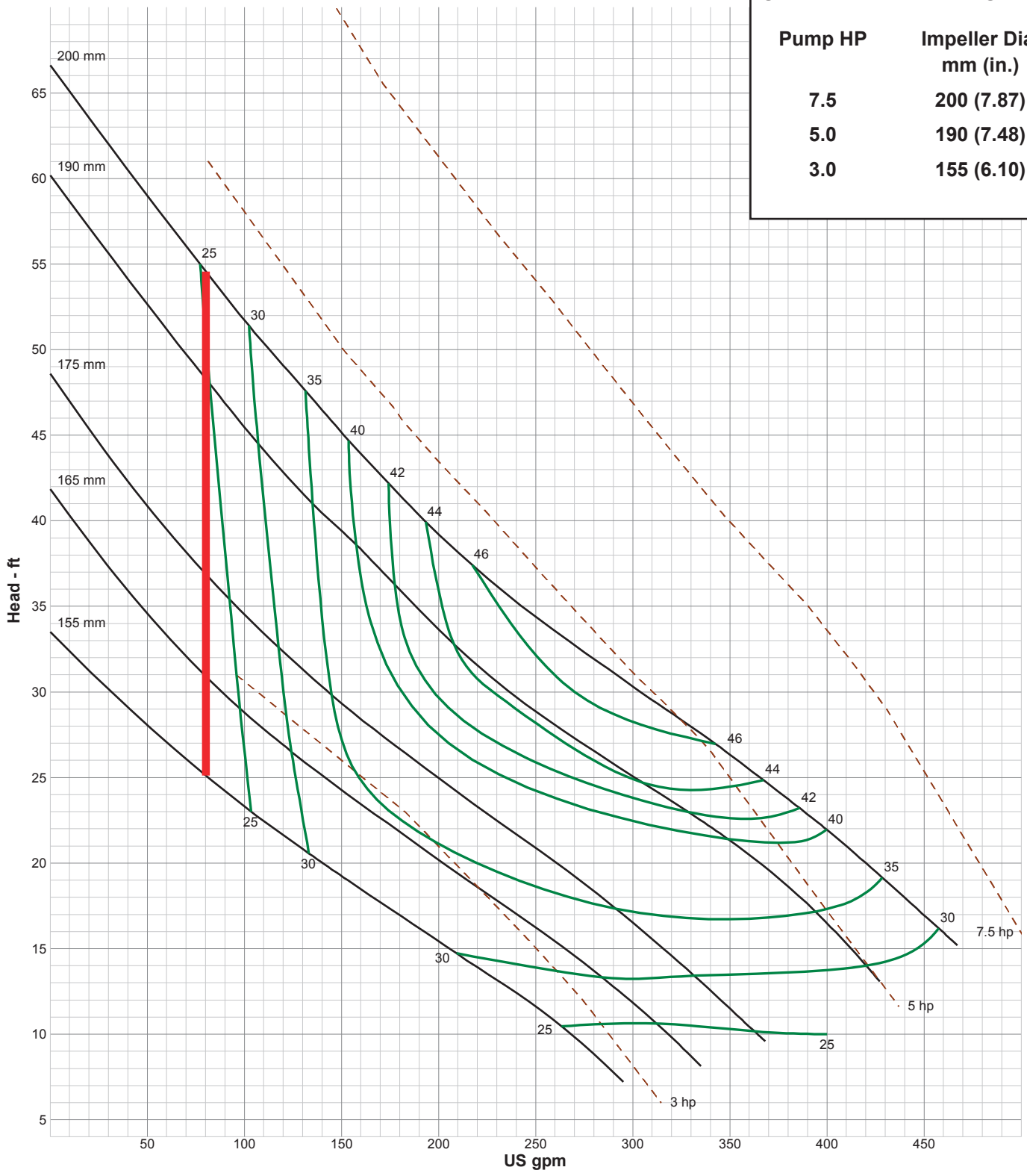
Series 4XSCMS

Performance Curve
7.5HP, 1750RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
7.5	200 (7.87)
5.0	190 (7.48)
3.0	155 (6.10)



Series 4XSCMC

Performance Curve

5 - 10HP, 1750RPM, 60Hz, 18 Frame

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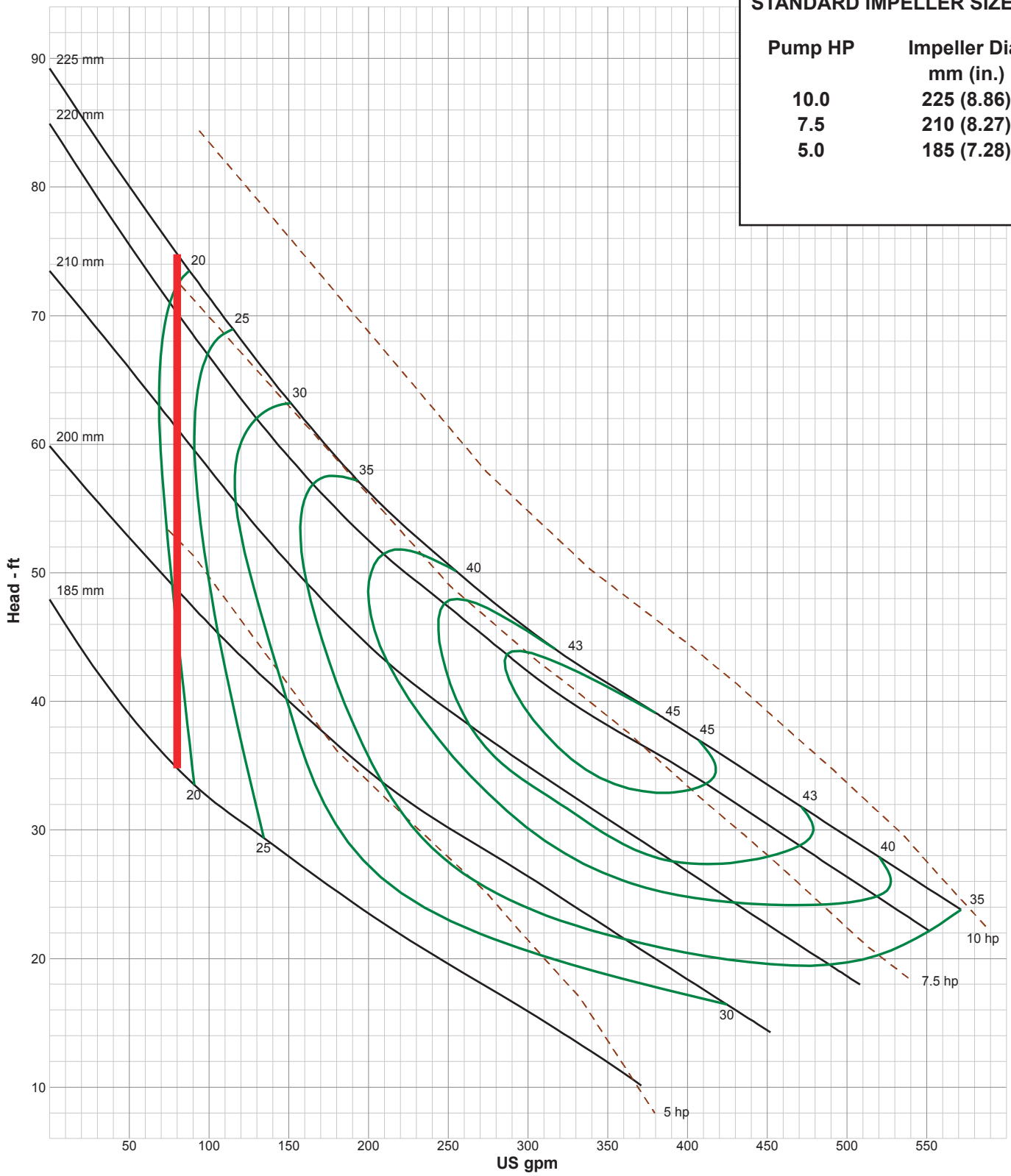
SITHE *X-Pruf® Submersible Chopper Pumps*

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
10.0	225 (8.86)
7.5	210 (8.27)
5.0	185 (7.28)



SECTION 0.2D
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PUMPS & SYSTEMS

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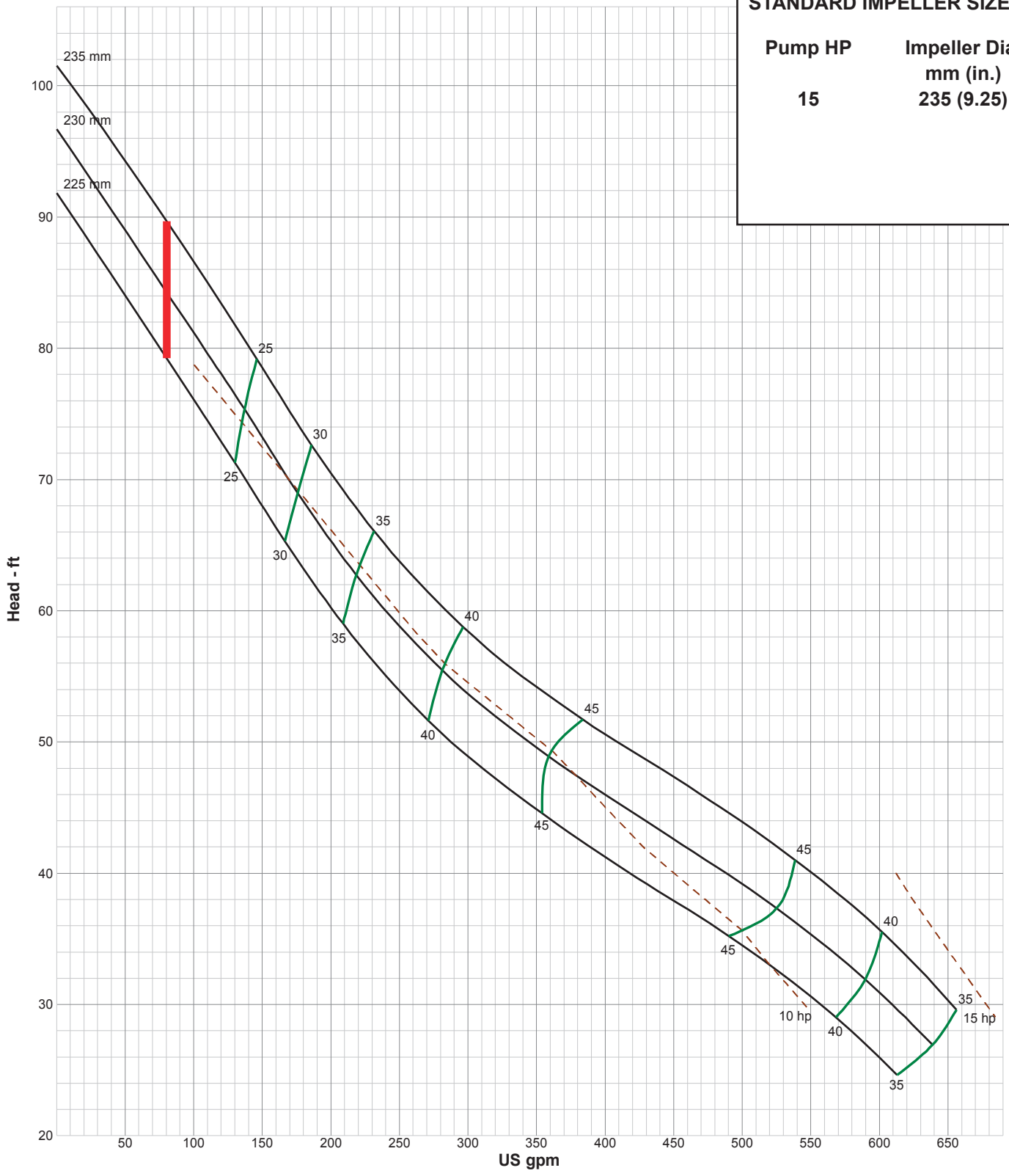
Series 4XSCMC

Performance Curve
15HP, 1750RPM, 60Hz, 21 Frame

SITHE *X-Pruf® Submersible Chopper Pumps*

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
15	235 (9.25)

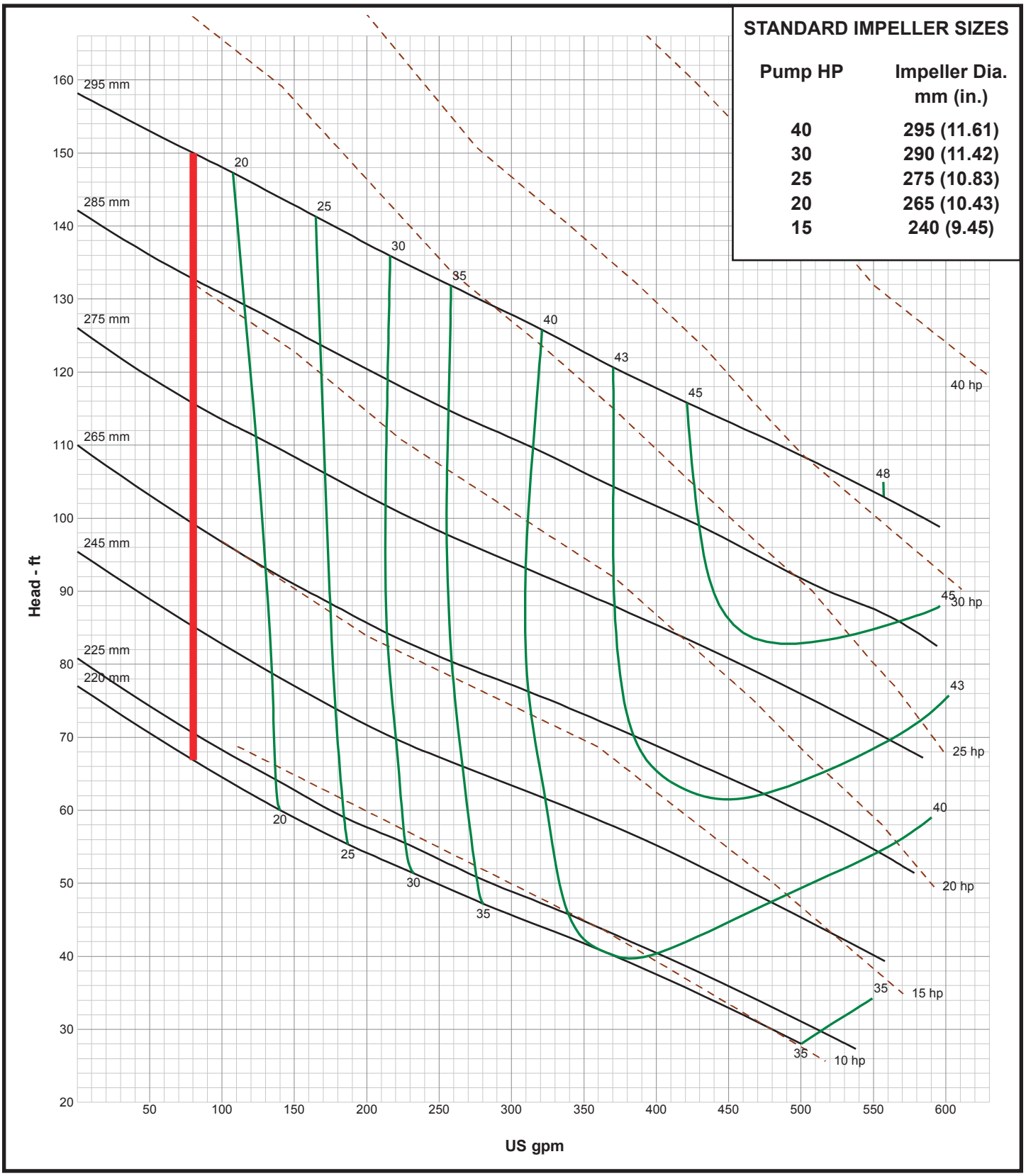


Series 4XSCMD

Performance Curve
15 - 40HP, 1750RPM, 60Hz

BARNES®
www.cranepumps.com

SITHE *X-Pruf® Submersible Chopper Pumps*



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USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

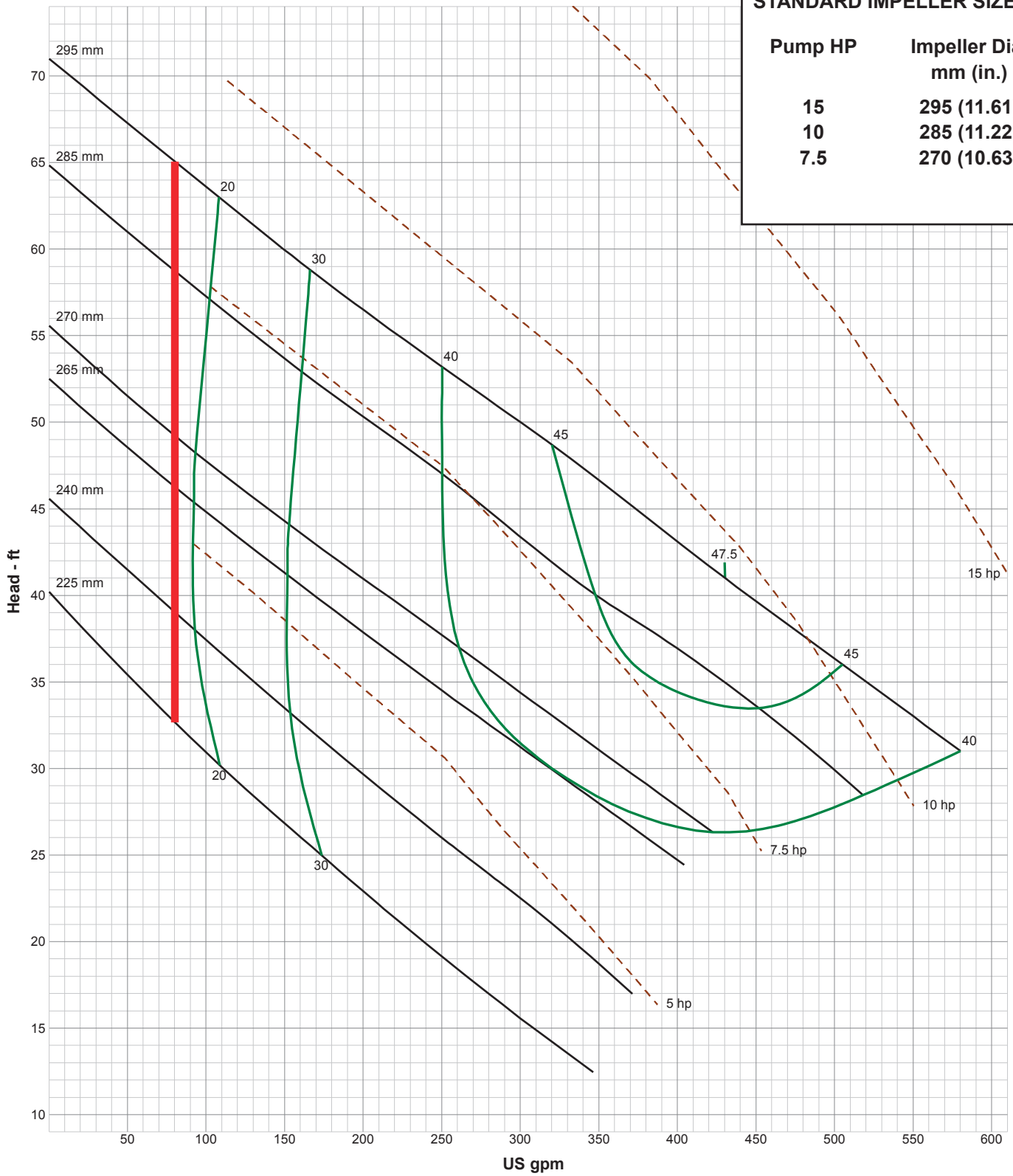
Series 4XSCMD

Performance Curve
7.5 - 15HP, 1150RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*

STANDARD IMPELLER SIZES

Pump HP	Impeller Dia. mm (in.)
15	295 (11.61)
10	285 (11.22)
7.5	270 (10.63)

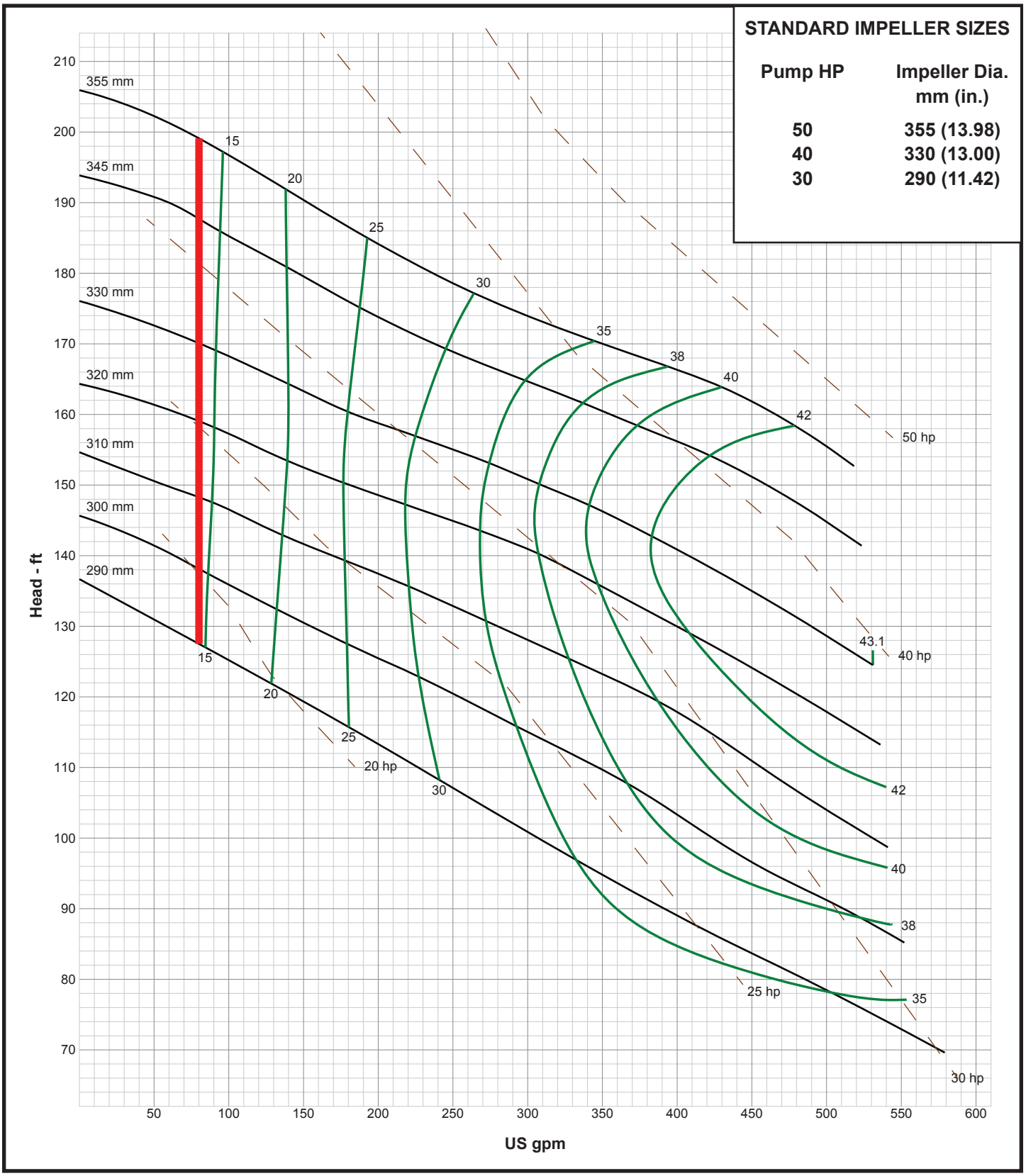


Series 4XSCME

Performance Curve
30 - 50HP, 1750RPM, 60Hz

BARNES®
www.cranepumps.com

SITHE *X-Pruf® Submersible Chopper Pumps*



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PUMPS & SYSTEMS

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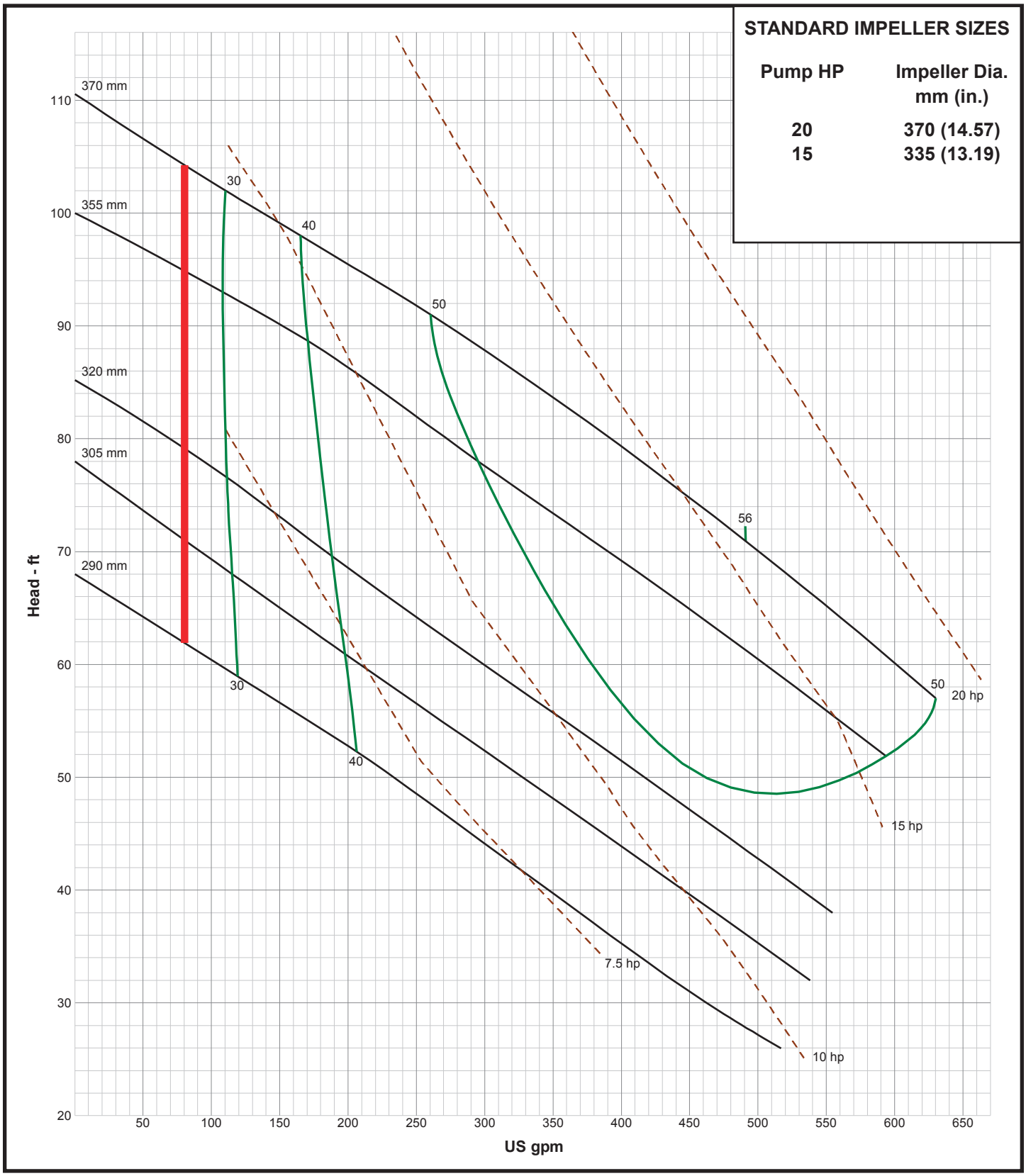
Series 4XSCME

Performance Curve
15 - 20HP, 1150RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*



Series 4XSCMEA

Performance Curve
10 - 25HP, 1150RPM, 60Hz

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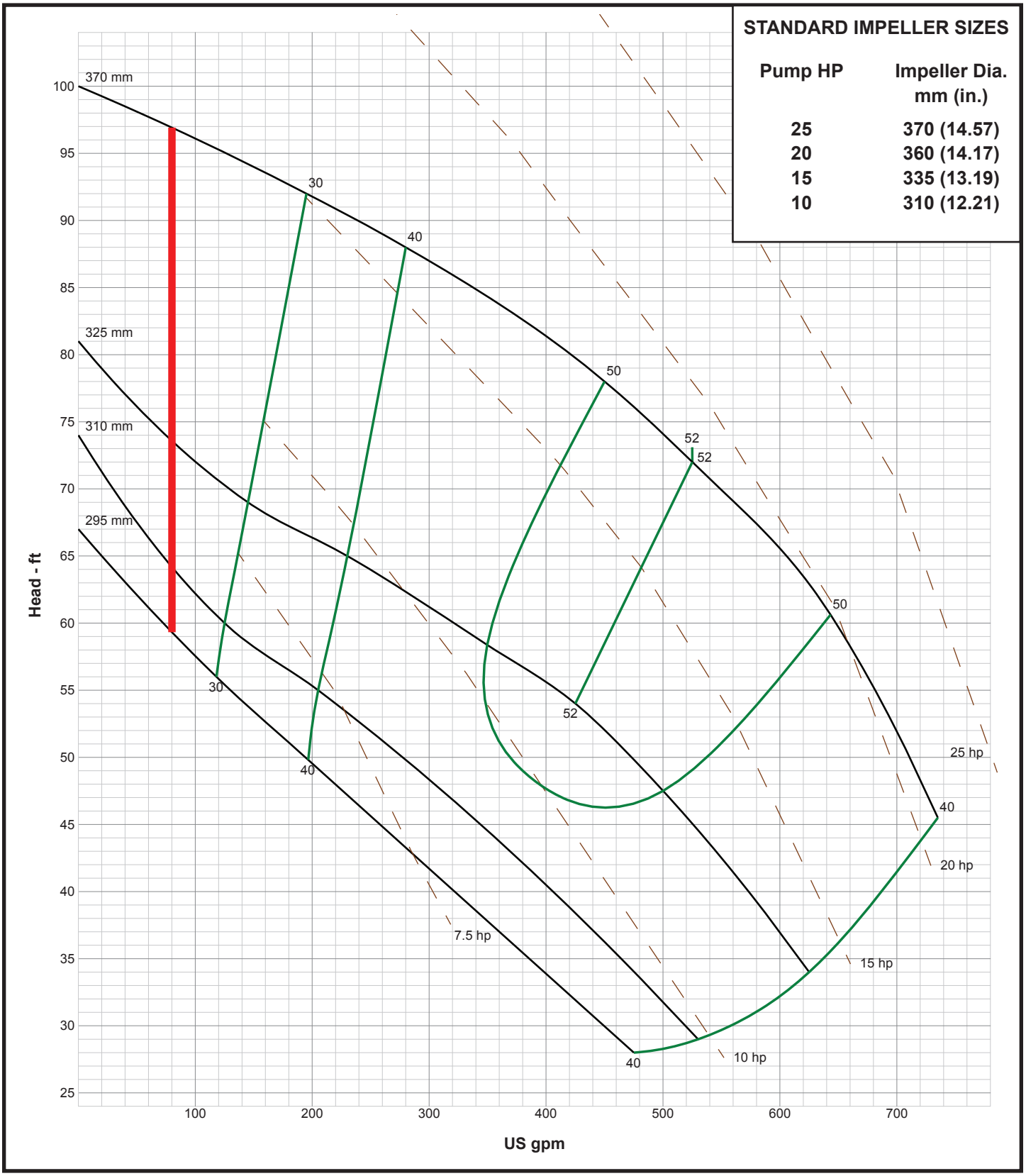
SITHE *X-Pruf® Submersible Chopper Pumps*



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SITHE *X-Pruf® Submersible Chopper Pumps*

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX)	291 lbs (131.9 Kg)
NOISE EMISSION MAX	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

LR16567

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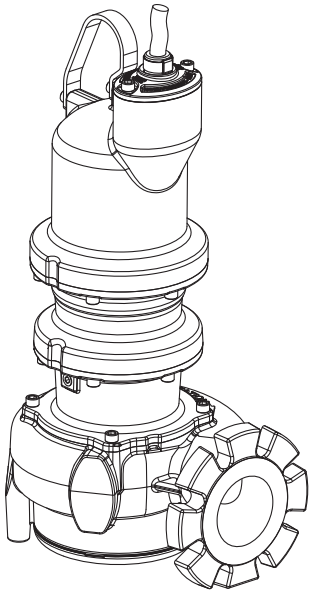

SITHE

Series: 4XSCD
3 - 10HP, 1750RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2D Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Series 4XSCD
21 Frame Driver

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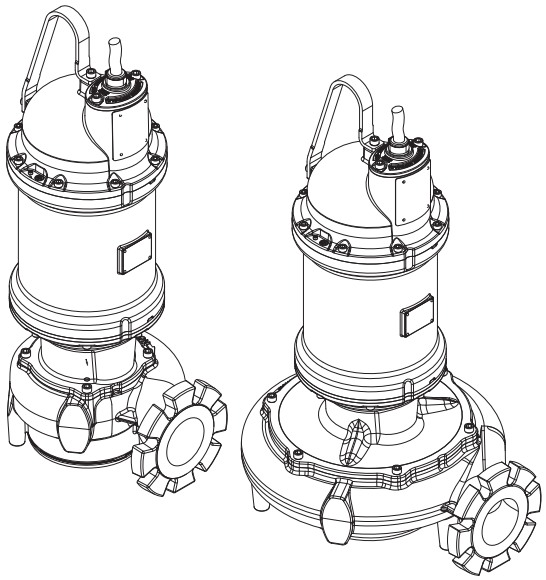
SITHE *X-Pruf® Submersible Chopper Pumps*



SITHE
Series: 4XSCD
15 - 30HP, 1750RPM, 60Hz
7.5 - 20HP, 1150RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2D Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Cast Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Custom Molded, Quick Connected for Sealing and Strain Relief
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX)	657 lbs (298 Kg)
NOISE EMISSION MAX	In-Air 73 dB-A
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

C SP US
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SITHE *X-Pruf® Submersible Chopper Pumps*

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	Ductile Iron ASTM A-536, 65-45-12
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 or 1150 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT (MAX)	848 lbs (385 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Moisture/Temp. Sensor Relay (Pump Monitor Relay) Leg Kit

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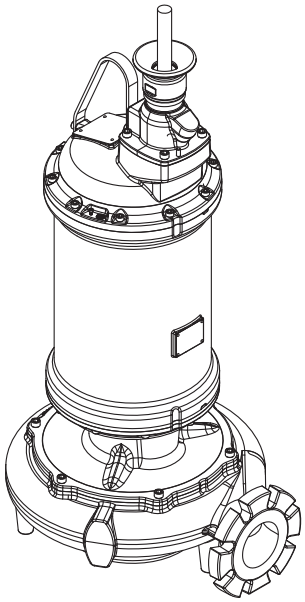

SITHE

Series: 4XSCD
20 - 60HP, 1750RPM, 60Hz
20 - 40HP, 1150RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2D Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Series 4XSCD
32 Frame Driver

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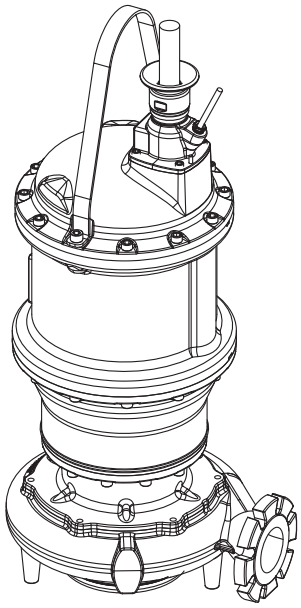
SITHE X-Pruf® Submersible Chopper Pumps



SITHE
Series: 4XSCD
75 - 100HP, 1750RPM, 60Hz

Explosion Proof, Class I, Division 1, Groups C & D, T4

Sample Specifications: Section 0.2C Page F.

This product may be covered by one or more of the following patents and other patent(s) pending: US Patent 7,931,473, NZ DSN NO. 424412, NZ DSN NO. 424413, AUS DSN NO. 201812608, AUS DSN NO. 201812609, EU Design Reg. 005293040-0001

DESCRIPTION:

SUBMERSIBLE CHOPPER PUMP DESIGNED FOR RAW SEWAGE APPLICATIONS.

WARNING:
CANCER AND REPRODUCTIVE HARM - WWW.P65WARNINGS.CA.GOV

Specifications:

DISCHARGE	4", 125 lb. Horizontal Flange Slotted to accommodate 100mm ISO Flanges
LIQUID TEMPERATURE	104°F (40°C) Continuous
VOLUTE	Cast Iron ASTM A-48, Class 30
STRIKER PLATE	440C Stainless Steel Heat Treated to 53-60 HRC Hole Pattern to Accomodate 4" 125 # Flange
WEAR RING	C954 Lead-Free Bronze
MOTOR HOUSING	Cast Iron ASTM A-48, Class 30
SEAL PLATE	**Cast** Iron ASTM A-48, Class 30
IMPELLER:	
Design	Enclosed Dual Vane, With Pump Out Vanes on Back Side. Dynamically Balanced ISO G6.3
Material	Ductile Iron ASTM A-536, 65-45-12
SLICING BLADE	440C Stainless Steel Heat Treated to 53-60 HRC
SHAFT	416 Stainless Steel
"O" RINGS	Buna-N
HARDWARE	300 Series Stainless Steel
LIFTING BAIL	300 Series Stainless Steel
PAINT	Axalta™ Corlar® Epoxy, Two Coats
SEAL: *Design*	Tandem Mechanical, Oil Filled Reservoir.
Material: Inboard	Rotating Faces - Carbon Stationary Faces - Ceramic
Material: Outboard	Rotating Faces - Silicon Carbide Stationary Faces - Silicon Carbide Elastomer - Buna-N Hardware - 300 Series Stainless
CORD ENTRY	Rigid quick change epoxy-potted housing
POWER CORD	CSA Certified Submersible Power Cable 2000V - Ordered Separately
SPEED	1750 RPM
UPPER BEARING:	
Design	Single Row, Ball, Oil Lubricated
Load	Radial
LOWER BEARING:	
Design	Double Row, Ball, Oil Lubricated
Load	Radial & Thrust
MOTOR: *Design*	NEMA B Three Phase Torque Curve. Oil-Filled, Squirrel Cage Induction, Inverter Duty rated per NEMA MG1
Insulation	Class H Varnish & Magnet Wire
THREE PHASE	Requires overload protection to be included in control panel.
MOISTURE SENSOR	Normally Open (N/O), Requires Relay in Control Panel
TEMPERATURE SENSOR	Three Normally Closed (N/C). To be wired in series with control circuit.
OPTIONAL EQUIPMENT	White Iron Impeller, Seal Material, Impeller Trims, Cord Length
MARKINGS	CSA
WEIGHT	1575 lbs (715 Kg)
SUBMERGENCE	Max Depth 66ft (20m)

RECOMMENDED:

Accessories	Break Away Fitting (BAF) Check Valve Control Panel Leg Kit

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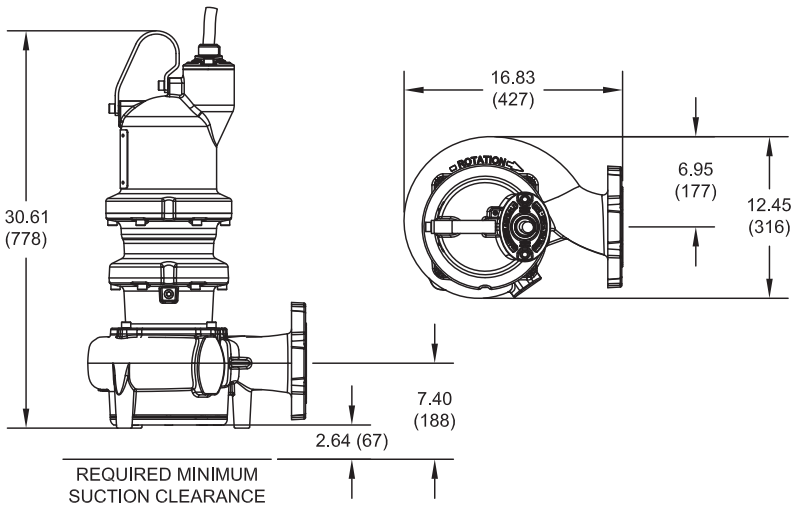
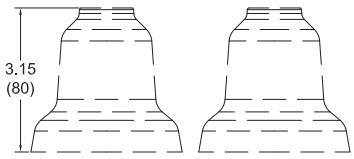
18 Frame Driver

inches (mm)



Optional Leg Kit - p/n 125506



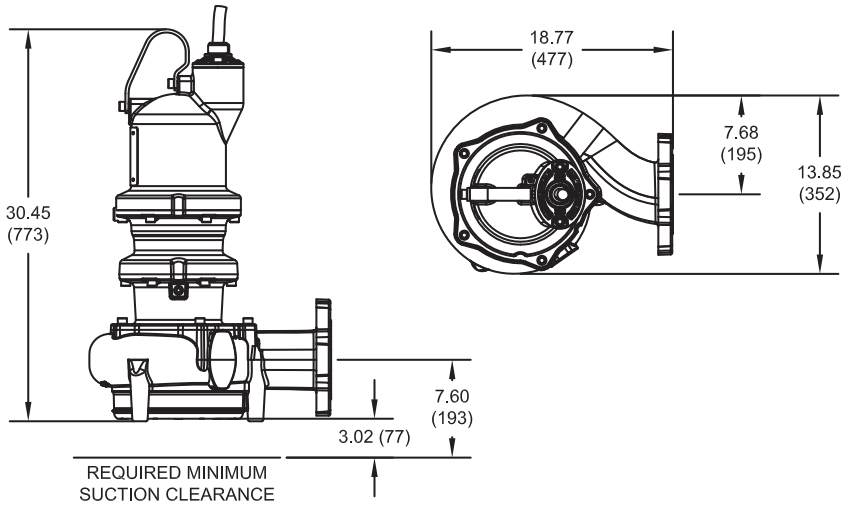
IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

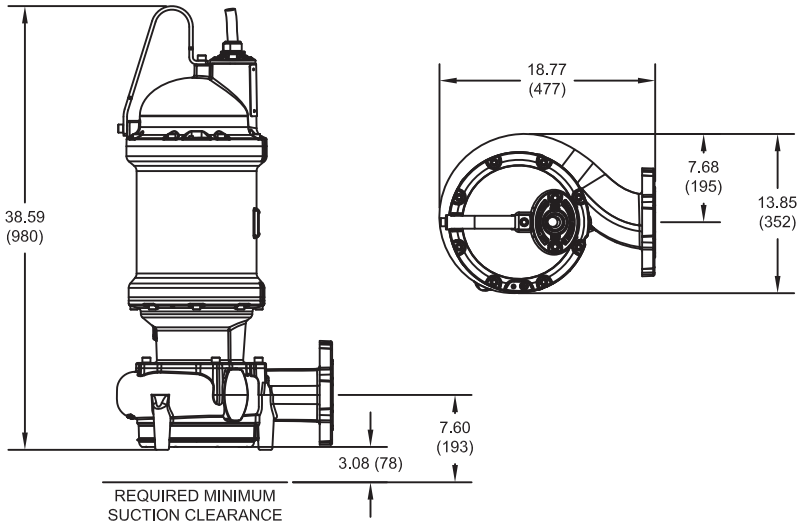
SITHE *X-Pruf® Submersible Chopper Pumps*

18 Frame Driver

inches (mm)



21 Frame Driver



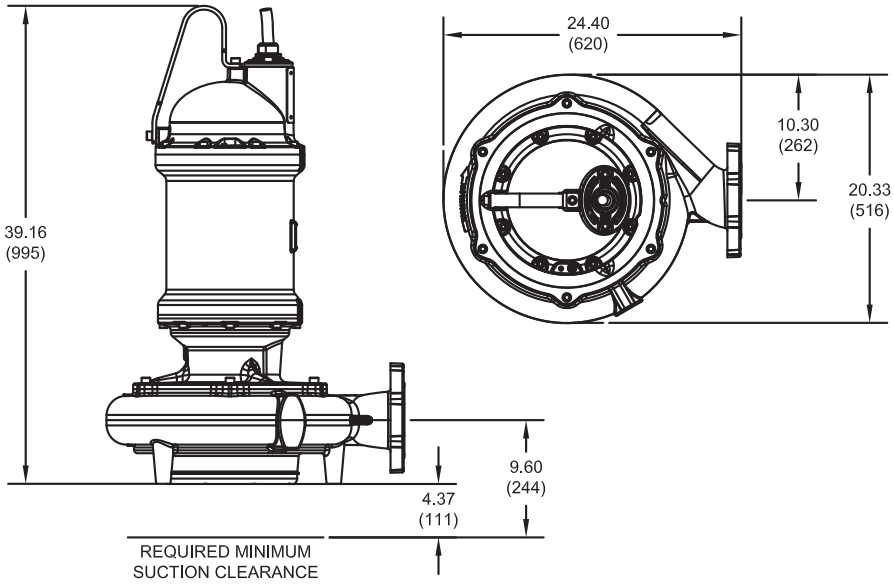
IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

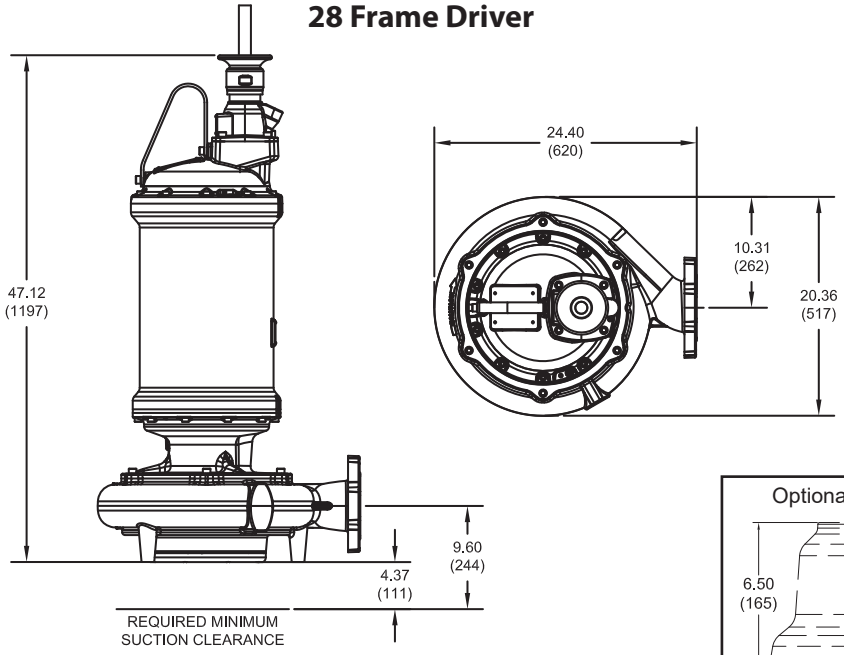
SITHE *X-Pruf® Submersible Chopper Pumps*

21 Frame Driver

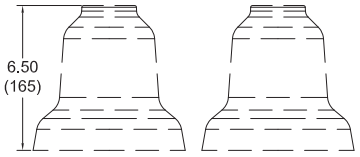
inches (mm)



28 Frame Driver



Optional Leg Kit - p/n 125506B

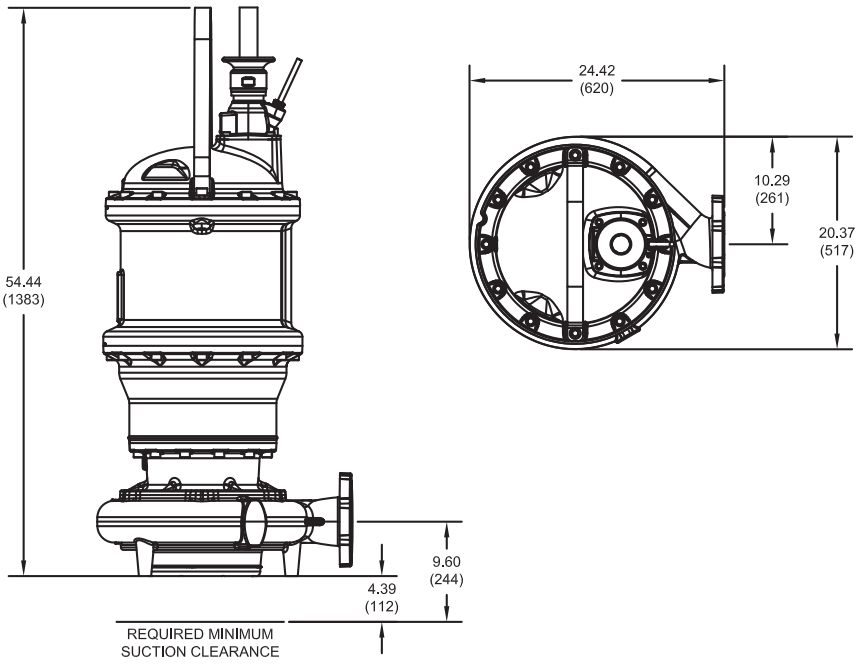


IMPORTANT !

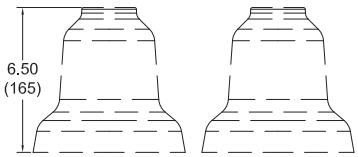
1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
4.) INSTALLATIONS SUCH AS DECORATIVE FOUNTAINS OR WATER FEATURES PROVIDED FOR VISUAL ENJOYMENT MUST BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE ANSI/NFPA 70 AND/OR THE AUTHORITY HAVING JURISDICTION. THIS PUMP IS NOT INTENDED FOR USE IN SWIMMING POOLS, RECREATIONAL WATER PARKS, OR INSTALLATIONS IN WHICH HUMAN CONTACT WITH PUMPED MEDIA IS A COMMON OCCURRENCE.

SITHE X-Pruf® Submersible Chopper Pumps

32 Frame Driver



Optional Leg Kit - p/n 125506B



IMPORTANT !

1.) MOISTURE AND TEMPERATURE SENSORS MUST BE CONNECTED TO VALIDATE THE CSA LISTING.
2.) A SPECIAL MOISTURE SENSOR RELAY IS REQUIRED IN THE CONTROL PANEL FOR PROPER OPERATION OF THE MOISTURE SENSORS. CONTACT BARNES PUMPS FOR INFORMATION CONCERNING MOISTURE SENSING RELAYS FOR CUSTOMER SUPPLIED CONTROL PANELS.
3.) THESE PUMPS ARE CSA LISTED FOR PUMPING WATER AND WASTEWATER. **DO NOT USE TO PUMP FLAMMABLE LIQUIDS**.
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SITHE X-Pruf® Submersible Chopper Pumps

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
SITHE xSCDF Pump	4XSCDF30N4	3.0	208	3	60	1750	K	9.7	1.2	11.4	58.2 / 65.8	18	125496	12/4 - 18/4
			230					9.2	1.2	10.6			125496	12/4 - 18/4
			460					4.6	1.2	5.3	32.9		125497	12/4 - 18/4
	4XSCDF3054	3.0	575	3	60	1750	N	4.5	1.2	4.9	37	18	125497	12/4 - 18/4
	4XSCDF50N4	5.0	208	3	60	1750	J	15.8	1.2	18.7	82.4 / 92.4	18	125496	12/4 - 18/4
			230					15	1.2	17.2			125496	12/4 - 18/4
			460					7.5	1.2	8.6	46.2		125497	12/4 - 18/4
	4XSCDF5054	5.0	575	3	60	1750	J	6	1.2	6.9	37	18	125497	12/4 - 18/4
	4XSCDF75N4	7.5	208	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6	18	125496	12/4 - 18/4
			230					23.7	1.2	27.2			125496	12/4 - 18/4
			460					11.9	1.2	13.6	61.8		125497	12/4 - 18/4
	4XSCDF7554	7.5	575	3	60	1750	H	9.5	1.2	10.9	49.4	18	125497	12/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.

SITHE X-Pruf® Submersible Chopper Pumps

SITHE xSCDG Pump

MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
4XSCDG50N4	5.0	208	3	60	1750	J	15.8	1.2	18.7	82.4 / 92.4	18	125496	12/4 - 18/4
		230					15	1.2	17.2			125496	12/4 - 18/4
		460					7.5	1.2	8.6	46.2		125497	12/4 - 18/4
4XSCDG5054	5.0	575	3	60	1750	J	6	1.2	6.9	37	18	125497	12/4 - 18/4
4XSCDG75N4	7.5	208	3	60	1750	H	23.8	1.2	28.5	105.9 / 123.6	18	125496	12/4 - 18/4
		230					23.7	1.2	27.2			125496	12/4 - 18/4
		460					11.9	1.2	13.6	61.8		125497	12/4 - 18/4
4XSCDG7554	7.5	575	3	60	1750	H	9.5	1.2	10.9	49.4	18	125497	12/4 - 18/4
4XSCDG100N4	10.0	208	3	60	1750	E	32.2	1.2	41.4	105.9 / 123.6	18	125498	8/4 - 18/4
		230					29.8	1.2	35.6			125498	8/4 - 18/4
		460					14.9	1.2	17.8	61.8		125497	12/4 - 18/4
4XSCDG10054	10.0	575	3	60	1750	E	11.9	1.2	14.2	49.4	18	125497	12/4 - 18/4
4XSCDG150N4	15.0	208	3	60	1750	E	51.8	1.2	59.0	206.6	21	125498	8/4 - 18/4
		230					46.9	1.2	54.3				
		460					23.4	1.2	27.2	103.3		125497	12/4 - 18/4
4XSCDG15054	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	125497	12/4 - 18/4
4XSCDG20084	20.0	230	3	60	1750	J	53.7	1.2	59.0	383.9	21	125498	8/4 - 18/4
		460					26.9	1.2	29.9			125497	12/4 - 18/4
4XSCDG20054	20.0	575	3	60	1750	J	21.5	1.2	23.9	153.5	21	125497	12/4 - 18/4
4XSCDG75N6	7.5	208	3	60	1150	J	24.9	1.2	29.6	137.6	21	125496	12/4 - 18/4
		230					24.0	1.2	27.6				
		460					12.0	1.2	13.8	68.8		125497	12/4 - 18/4
4XSCDG7556	7.5	575	3	60	1150	J	9.6	1.2	11.0	55.0	21	125497	12/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XC - 30 Feet, XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.

SITHE *X-Pruf® Submersible Chopper Pumps*

	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
SITHE XSCDI Pump	4XSCDI150N4*	15.0	208	3	60	1750	E	51.8	1.2	59.0	206.6	21	125498	8/4 - 18/4
			230					46.9		54.3				
			460					23.4	1.2	27.2	103.3		125497	12/4 - 18/4
	4XSCDI15054*	15.0	575	3	60	1750	E	18.7	1.2	21.7	82.6	21	125497	12/4 - 18/4
	4XSCDI20064	20.0	208	3	60	1750	G	63.0	1.2	74.6	323.0	28	138318	6/4 - 18/4
	4XSCDI20084	20.0	230	3	60	1750	J	53.7	1.2	59.0	383.9	21	125498	8/4 - 18/4
			460					26.9	1.2	29.9			125497	12/4 - 18/4
	4XSCDI20054	20.0	575	3	60	1750	J	21.5	1.2	23.9	153.5	21	125497	12/4 - 18/4
	4XSCDI25094	25.0	208	3	60	1750	G	77.8	1.2	93.4	359.0	28	138319	2/4 - 18/4
			230					71.4	1.2	82.3				
	4XSCDI25044	25.0	460	3	60	1750	G	33.2	1.2	38.9	191.9	21	125499	8/4 - 18/4
	4XSCDI25054	25.0	575	3	60	1750	G	26.6	1.2	31.1	153.5	21	125497	12/4 - 18/4
	4XSCDI30094	30.0	208	3	60	1750	E	93.4	1.2	116.9	359.0	28	138319	2/4 - 18/4
			230					82.3	1.2	98.7				
	4XSCDI30044	30.0	460	3	60	1750	F	38.9	1.2	45.9	191.9	21	125499	8/4 - 18/4
	4XSCDI30054	30.0	575	3	60	1750	F	31.1	1.2	36.7	153.5	21	125499	8/4 - 18/4
	4XSCDI40034	40.0	230	3	60	1750	E	106.0	1.2	126.4	486.0	28	138319	2/4 - 18/4
	4XSCDI40044	40.0	460	3	60	1750	E	53.0	1.2	63.2	243.0	28	138318	6/4 - 18/4
	4XSCDI40054	40.0	575	3	60	1750	E	42.4	1.2	50.6	194.4	28	138317	8/4 - 18/4
	4XSCDI50044	50.0	460	3	60	1750	F	67.1	1.2	79.0	339.0	28	138318	6/4 - 18/4
	4XSCDI50054	50.0	575	3	60	1750	F	53.7	1.2	63.2	271.2	28	138318	6/4 - 18/4
	4SCDI60044	60.0	460	3	60	1750	E	79.0	1.2	95.5	339.0	28	138319	2/4 - 18/4
	4SCDI60054	60.0	575	3	60	1750	E	63.2	1.2	76.4	271.2	28	138318	6/4 - 18/4
	4SCDI75044	75.0	460	3	60	1750	G	108.4	1.15	120.7	578.0	32	138319	2/4 - 18/4
	4SCDI75054	75.0	575	3	60	1750	G	86.7	1.15	96.6	462.4	32	138319	2/4 - 18/4
	4SCDI100044	100.0	460	3	60	1750	E	136.6	1.15	155.3	578.0	32	138319	2/4 - 18/4
	4SCDI100054	100.0	575	3	60	1750	E	109.2	1.15	124.2	462.4	32	138319	2/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.
* Select impeller diameter when ordering.

SITHE X-Pruf® Submersible Chopper Pumps

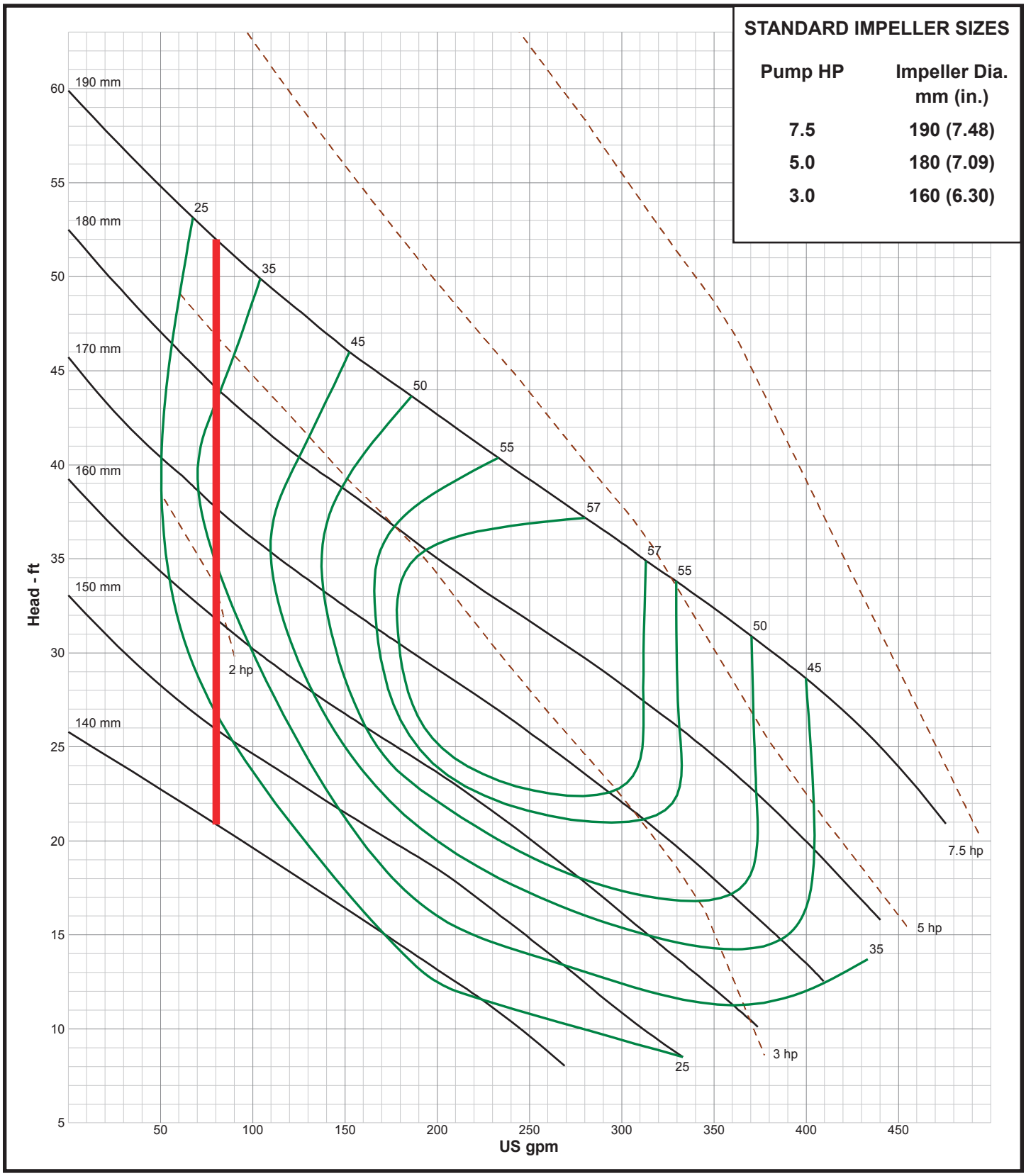
SITHE XSCDI Pump	MODEL NO	HP	VOLT	PH	Hz	RPM (Nom)	NEMA START CODE	FULL LOAD AMPS	SERVICE FACTOR	SERVICE FACTOR AMPS	LOCKED ROTOR AMPS	DRIVER FRAME	CORD P/N ▲	CORD SIZE
	4XSCDI75N6	7.5	208	3	60	1150	J	24.9	1.2	29.6	137.6	21	125496	12/4 - 18/4
			230					24.0	1.2	27.6				
			460					12.0	1.2	13.8	68.8		125497	
	4XSCDI7556	7.5	575	3	60	1150	J	9.6	1.2	11.0	55.0	21	125497	12/4 - 18/4
	4XSCDI100N6	10.0	208	3	60	1150	F	32.9	1.2	41.0	137.6	21	125498	8/4 - 18/4
			230					30.2	1.2	35.8				
			460					15.1	1.2	17.9	68.8		125497	12/4 - 18/4
	4XSCDI10056	10.0	575	3	60	1150	F	12.1	1.2	14.3	55.0	21	125497	12/4 - 18/4
	4XSCDI150N6	15.0	208	3	60	1150	H	47.0	1.2	56.8	248.6	21	125498	8/4 - 18/4
			230					44.1	1.2	51.4				
			460					22.0	1.2	25.7	124.3		125497	12/4 - 18/4
	4XSCDI15056	15.0	575	3	60	1150	H	17.6	1.2	20.6	99.4	21	125497	12/4 - 18/4
	4XSCDI20096	20.0	208	3	60	1150	H	60.3	1.2	71.5	354.0	28	138318	6/4 - 18/4
			230					57.2	1.2	69.8				
	4XSCDI20046	20.0	460	3	60	1150	E	28.6	1.2	34.9	124.3	21	125499	8/4 - 18/4
	4XSCDI20056	20.0	575	3	60	1150	E	22.9	1.2	27.9	99.4	21	125497	12/4 - 18/4
	4XSCDI25096	25.0	208	3	60	1150	G	75.2	1.2	90.8	354.0	28	138319	2/4 - 18/4
			230					70.8	1.2	82.6				
	4XSCDI25046	25.0	460	3	60	1150	G	35.4	1.2	41.3	177.0	28	138317	8/4 - 18/4
	4XSCDI25056	25.0	575	3	60	1150	G	28.3	1.2	33.0	141.6	28	138317	8/4 - 18/4
	4XSCDI30096	30.0	208	3	60	1150	E	90.8	1.2	114.9	354.0	28	138319	2/4 - 18/4
			230					82.6	1.2	99.7				
	4XSCDI30046	30.0	460	3	60	1150	E	41.3	1.2	49.9	177.0	28	138317	8/4 - 18/4
	4XSCDI30056	30.0	575	3	60	1150	E	33.0	1.2	39.9	141.6	28	138317	8/4 - 18/4
	4XSCDI40036	40.0	230	3	60	1150	E	110.4	1.2	131.8	476.0	28	138319	2/4 - 18/4
	4XSCDI40046	40.0	460	3	60	1150	E	55.2	1.2	65.9	238.0	28	138318	6/4 - 18/4
	4XSCDI40056	40.0	575	3	60	1150	E	44.2	1.2	52.7	190.4	28	138317	8/4 - 18/4

IMPORTANT !
Moisture and Temperature sensor leads are integral to power cord.
Pump rated for operation at ± 10% voltage at motor.
▲ Cord Suffix: XF - 50 Feet, XJ - 75 Feet, or XL - 100 Feet.
▲ Cord sold separately.

Series 4XSCDF

Performance Curve
3 - 7.5HP, 1750RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*



STANDARD IMPELLER SIZES

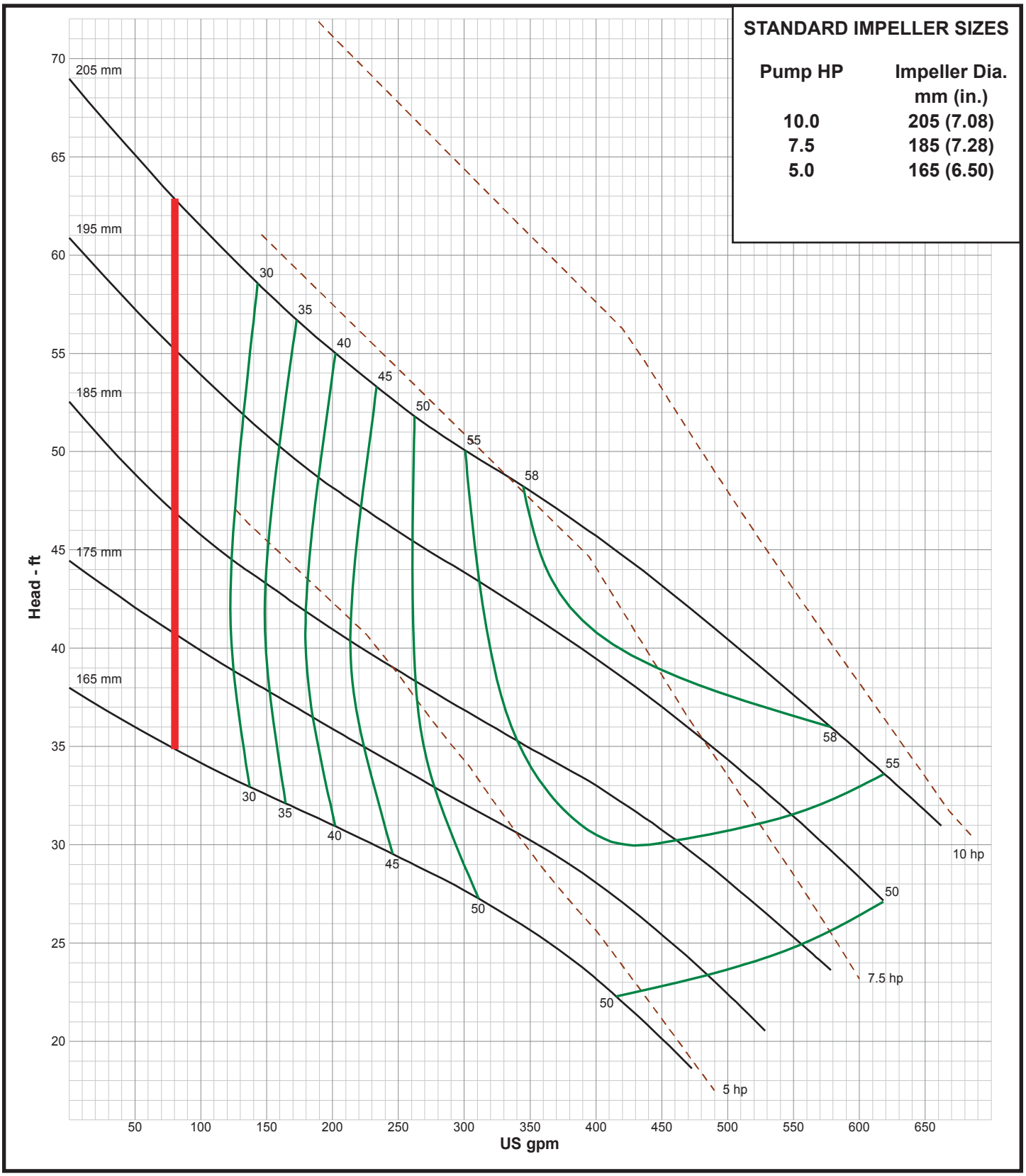
Pump HP	Impeller Dia. mm (in.)
7.5	190 (7.48)
5.0	180 (7.09)
3.0	160 (6.30)

Series 4XSCDG

Performance Curve
5 - 10HP, 1750RPM, 60Hz, 18 Frame

BARNES®
www.cranepumps.com

SITHE *X-Pruf® Submersible Chopper Pumps*



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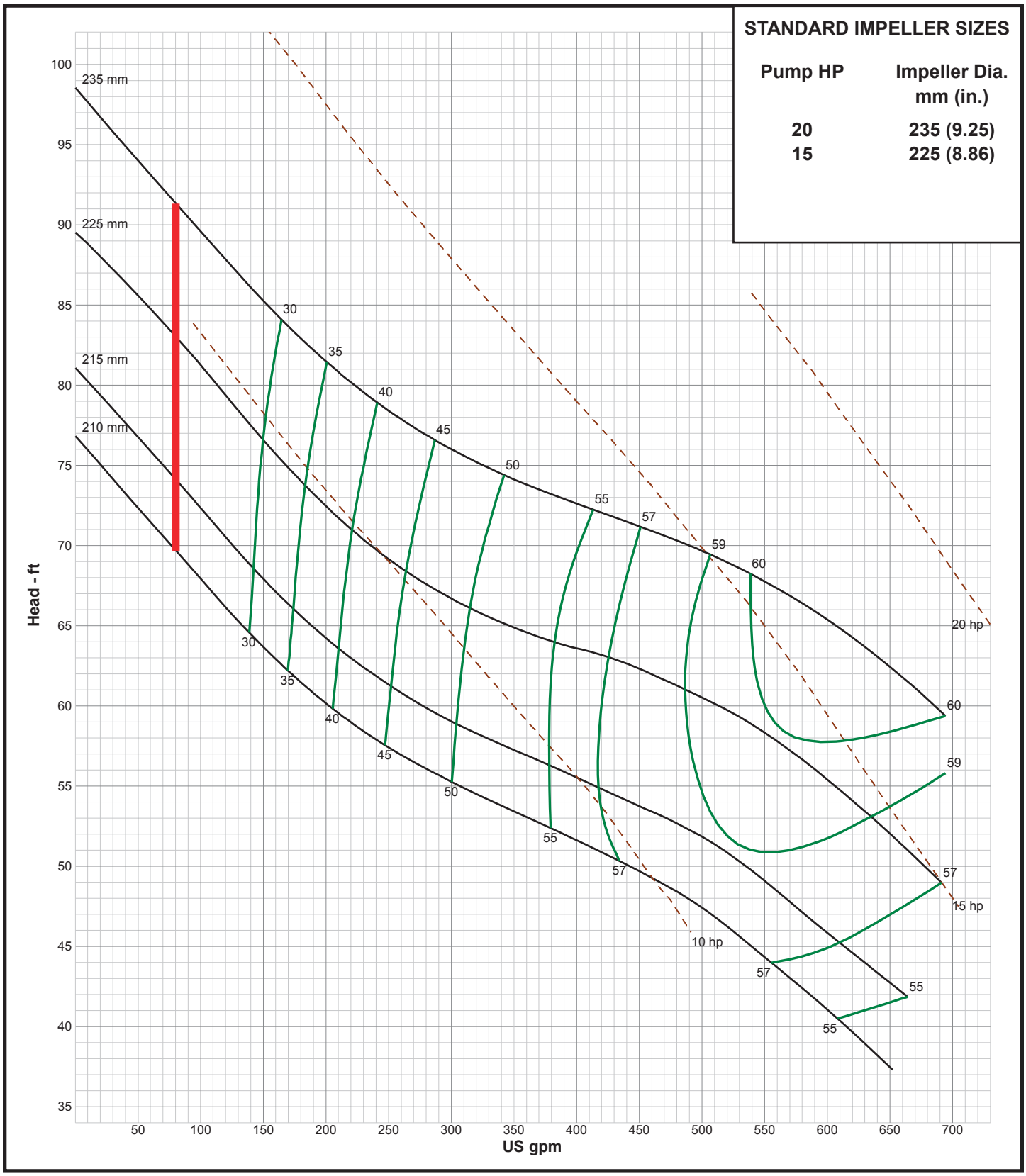
PUMPS & SYSTEMS

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

Series 4XSCDG

Performance Curve
15 - 20HP, 1750RPM, 60Hz, 21 Frame

SITHE *X-Pruf® Submersible Chopper Pumps*



Series 4XSCDG

Performance Curve
7.5HP, 1150RPM, 60Hz

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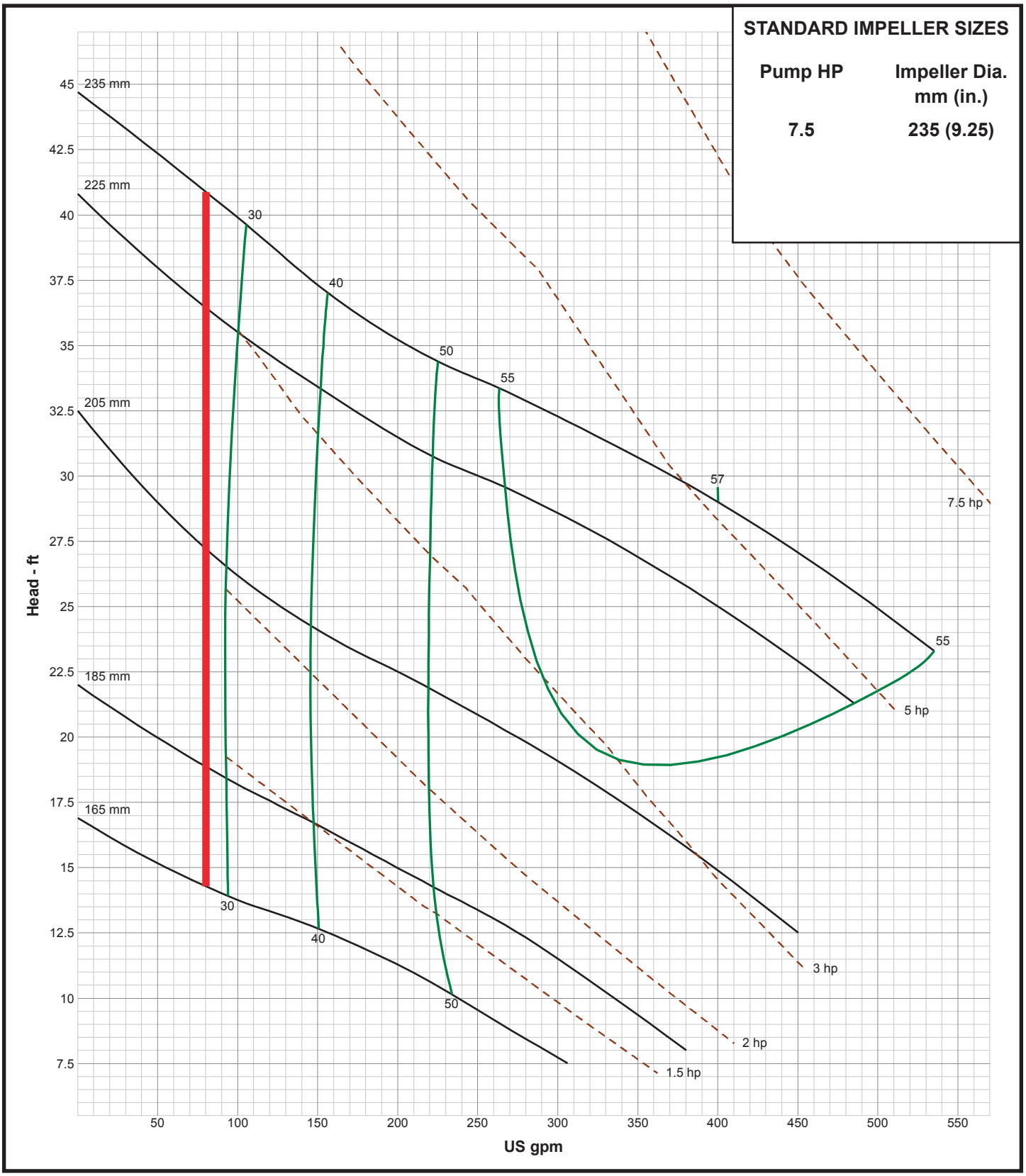
SITHE *X-Pruf® Submersible Chopper Pumps*



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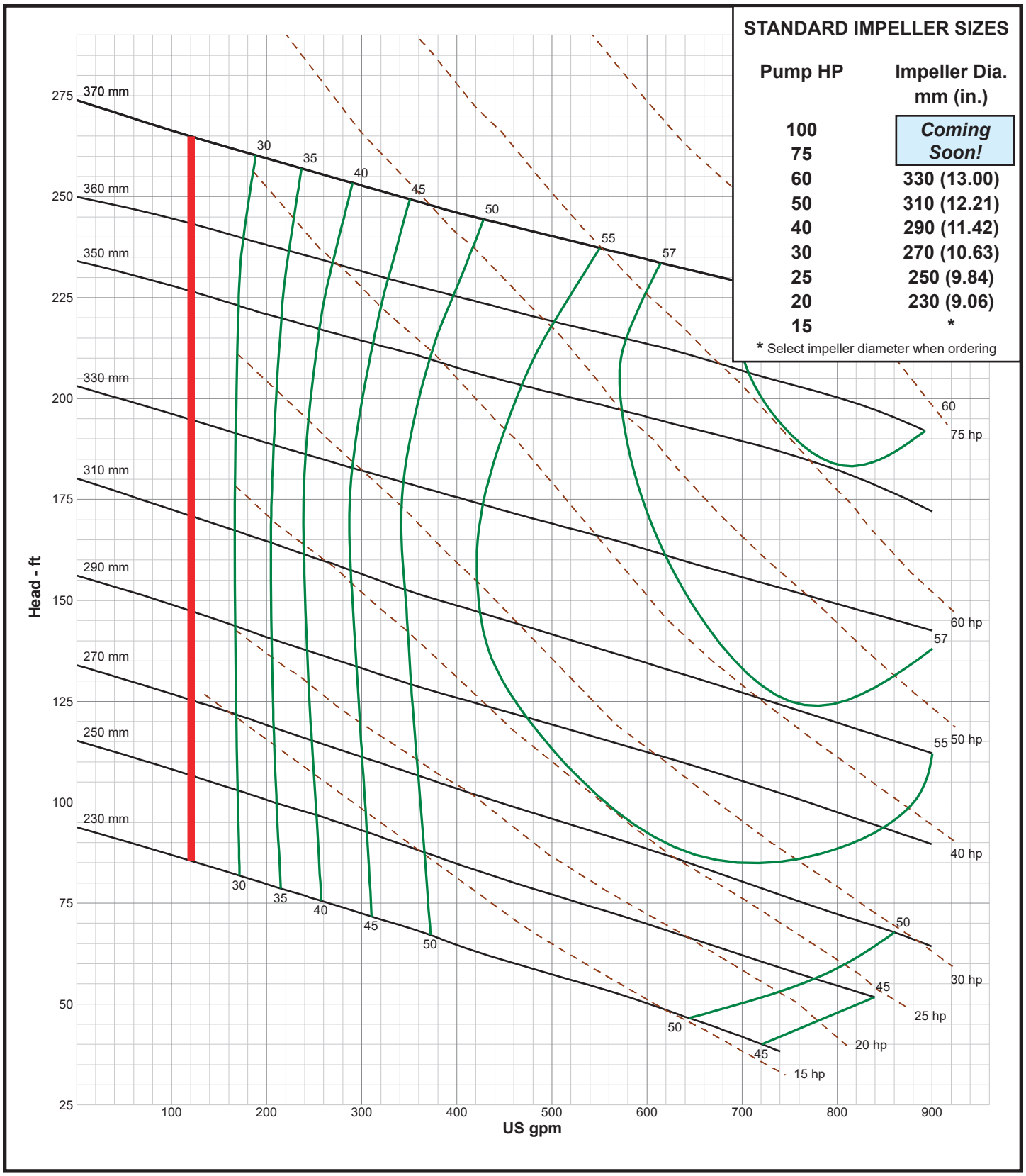
CRANE®
A Crane Co. Company

PUMPS & SYSTEMS

Series 4XSCDI

Performance Curve
15 - 100HP, 1750RPM, 60Hz

SITHE *X-Pruf® Submersible Chopper Pumps*



Series 4XSCDI

Performance Curve
7.5 - 40HP, 1150RPM, 60Hz

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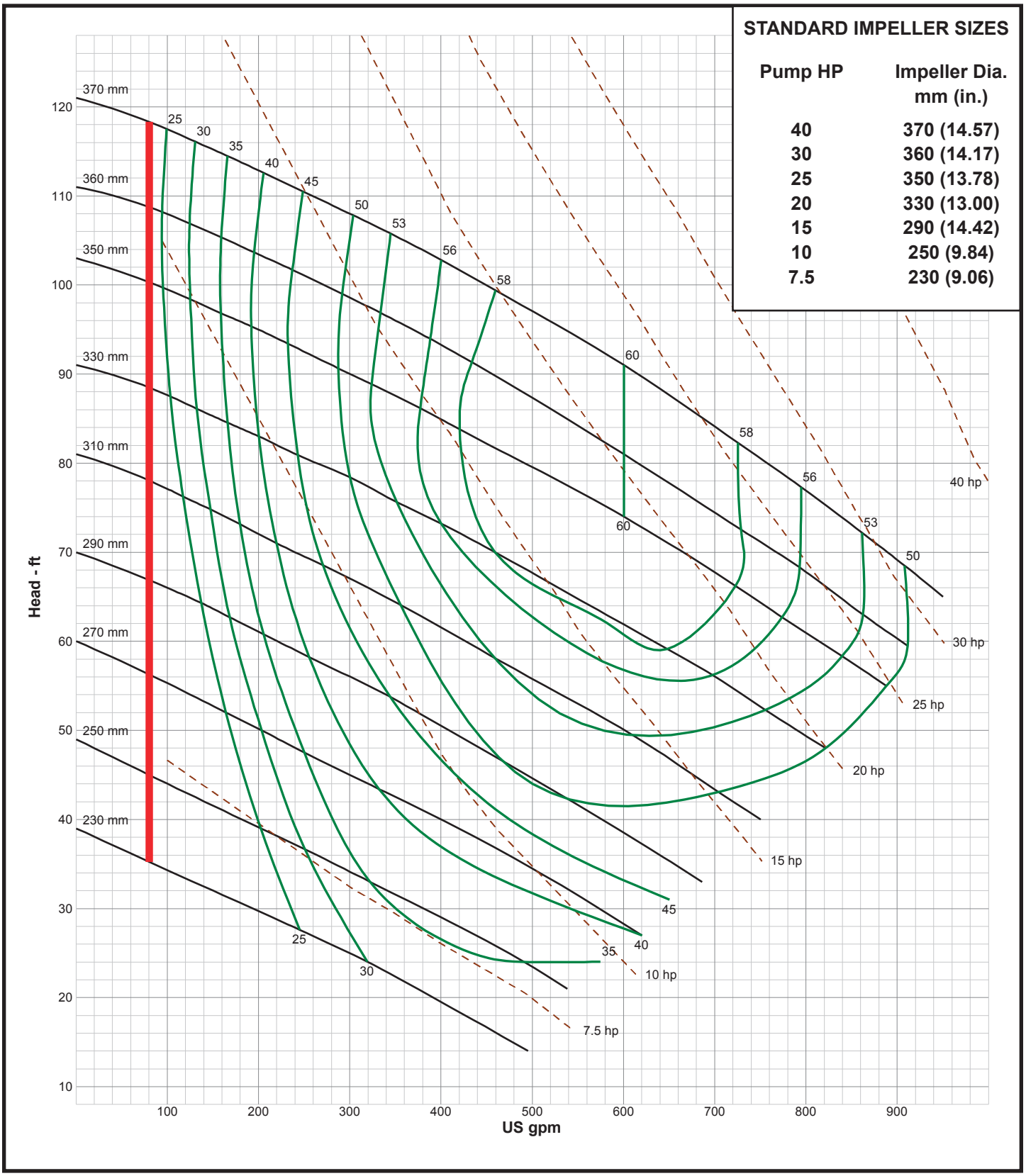
SITHE *X-Pruf® Submersible Chopper Pumps*



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